Radio Amateur

in U.S.A. & Canada Elsewhere



RADIO AMATEURS OF THE U.S.A. (ALL K AND W CALLS)

IN THIS ISSUE

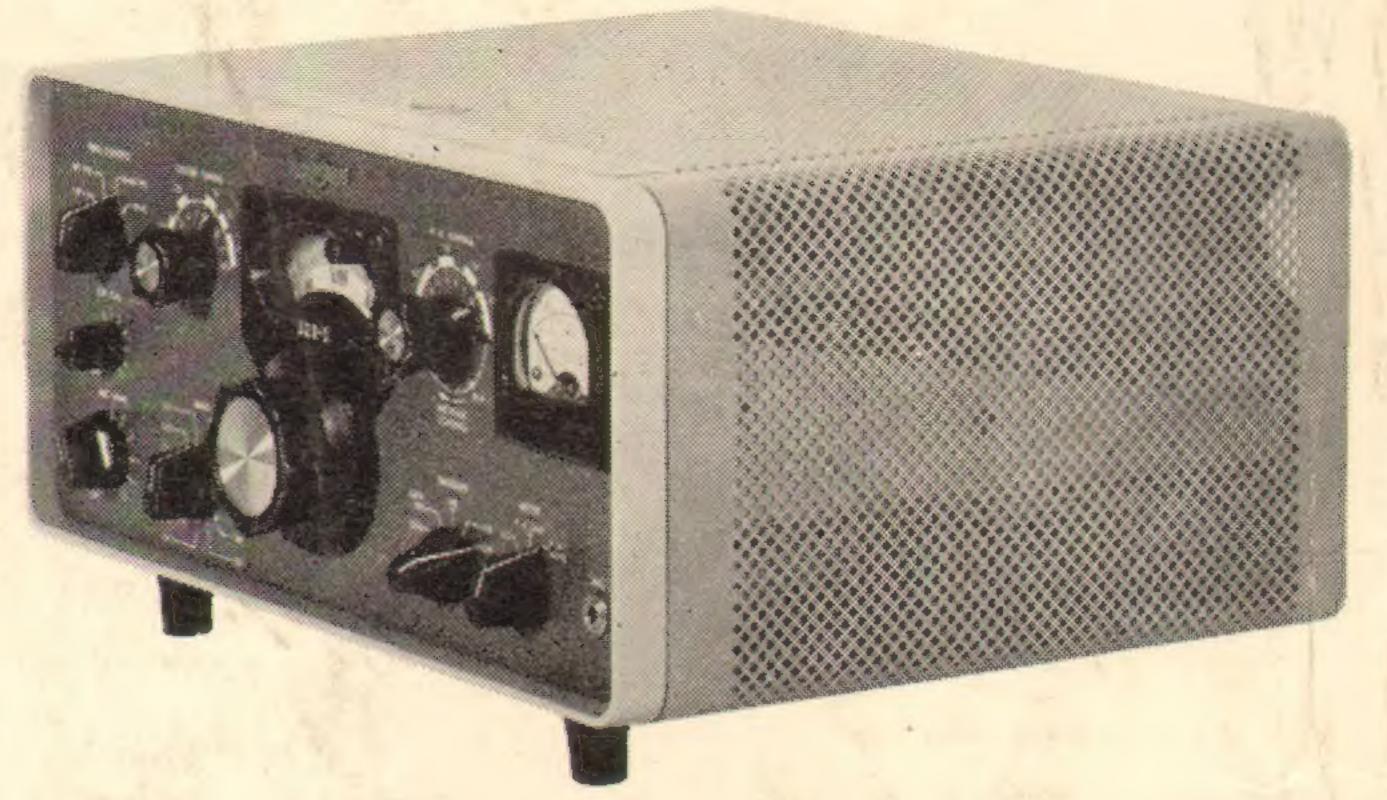
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FALL 1962

CURRENT UNTIL THE NEXT ISSUE, DECEMBER 1962

JOHN J. VALESKA 276 NORMANDALE DRIVE ROCHESTER, N. Y.





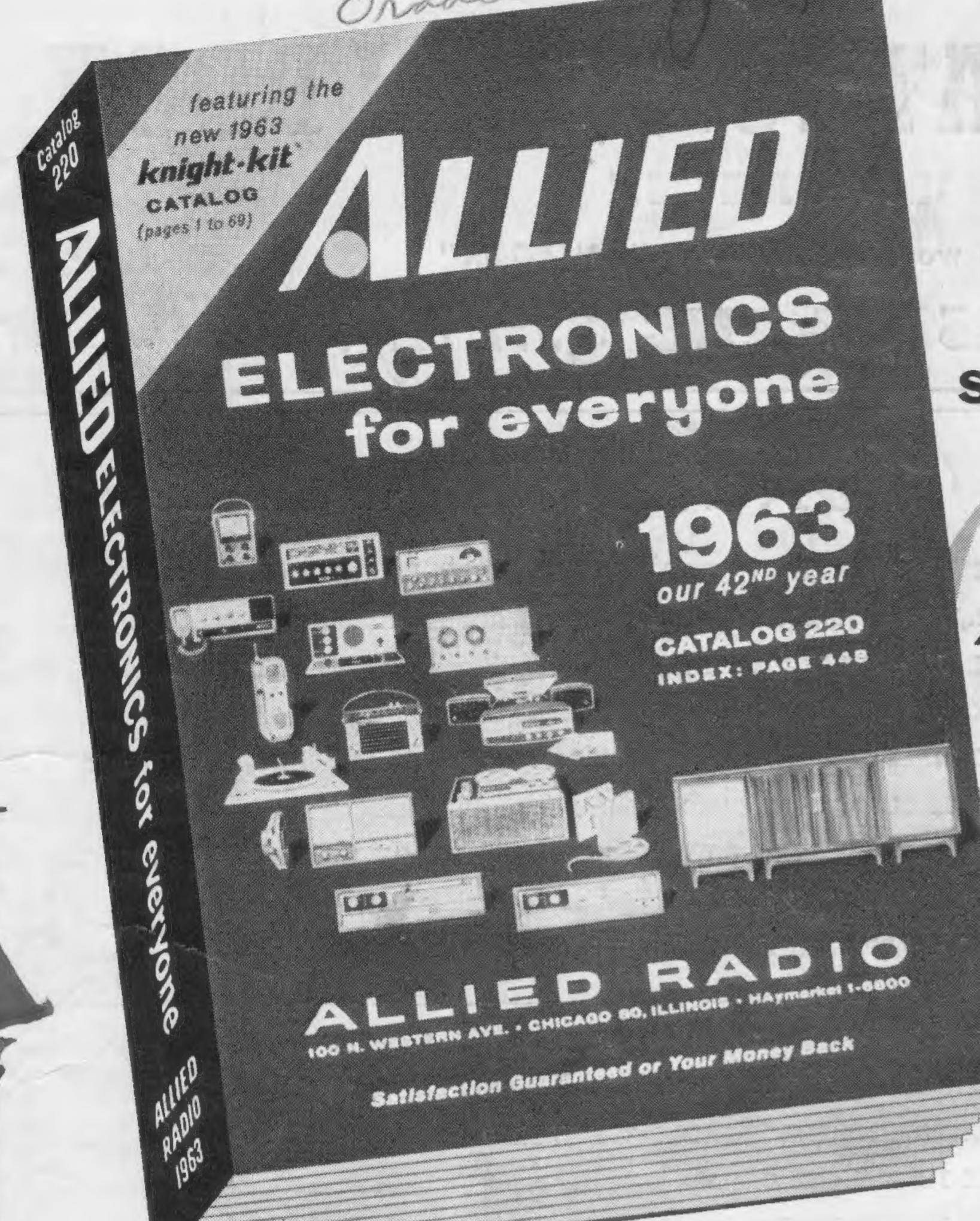
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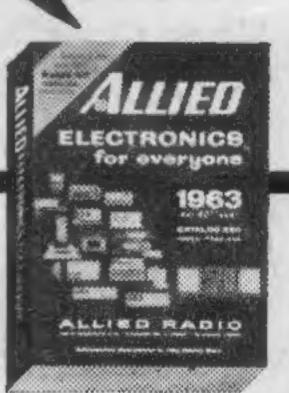
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RADIO AMATEUR CALLBOOK

MAGAZINE

known the world over as the "CALLBOOK"

RADIO AMATEURS OF THE U.S. A. (ALL KAND W CALLS)

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} (Sikkim Tibet
)	Bhutan
	East Pakistan
	West Pakistan Formosa
	China
	Manchuria
	Chile
AA-AM, KC4,	LU-Z. VKo, VP8, ZL5_Antarctica
	(See VP8)
A	Easter Island
	Juan Fernandez Archipelago
CO	Tangiers
CNS CNO	Morocco
•	Bolivia
	Cape Verde Islands
	Portuguese Guinea
	Principe, Sao Thome
	Angola
	Mozambique Damao, Diu
****	Goa Goa
	Macao
	Portuguese Timor
	Portugal
	Azores
	Madeira Islands Uruguay
DI DM	
	Philippine Islands
	Spair
	Balearic Islands
	Canary Islands
	Ifn:
	Rio de Oro
	Spanish Morocco
	Spanish Guinea Republic of Ireland
	Liberia
MARKET AND	Irar
	Eritre
	Ethiopia
	France
	Amsterdam & St. Paul Islands
	Comoro Islande
	Kerquelen Island
	Tromelin Island
	Corsic
	French West Afric
	Guadeloupe
-	French Indo-Chin
	New Caledonia French Somaliland
7	Martinique
-	French Indi
R	Clipperton Island
R	French Oceani
8	St. Pierre & Miquelon Island French Equatorial Afric
	Daumian Islani
	Saint Martin
-	New Hebride
8	Wallis & Futuna Island
7	French Guiana & Inin
	Channel Island
	Isle of Man
	Northern Irelan
	Scotlan
	Wale
	Hungar
	Switzerlan Ecuado
6	Galapagos Island
8	Liechtenstei
	Hai
	Dominican Republi
	Colombi
φ	Bajo Nuev
φ	Malpelo Islan
Ø	San Andres and Providence Kore
5, HM	Panam
	Hondura
	Thailan
	Vatican Cit
	Saudi Arab
ITI	Ital Tries
	Italian Somalilan
	Sardini
KA	Japa
	Mongoli
	Jorda
b	Netherlands New Guine
W	United States of America
d, KG6I	Bonin & Volcano Island
6 Baker, Ho	wland & American Phoenix Island (See CE
4	Navassa Islan
6	Eastern Caroline Island
.6	Western Caroline Island
31	(See O
4	Guantanamo Ba
36	Marcus Island Mariana Island
38	10 72
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361	Hawaiian Island

	Johnston Island Alaska
L7 M6_	Midway Islands
P4_	Puerto Rico
P6	Palmyra Group, Jarvis Island Ryukyu Islands
S4	Serrana Bank & Roncador Cay
S4	Swan Islands
	American Samoa
V4_	Wake Island
CW6.	Marshall Islands
Z5	Canal Zone
.A	Jan Mayen
A	Norway Syalbard
.A	Argentina
U-Z	(See CE9)
X	Luxembourg
Z	Bulgaria San Marino
/P4	Bahrein
MP4	Qatar
ИР4	Trucial Oman
DD5	Lebanon
DE	Austria
)H_	Finland
DHφ.	Aland Islands
OK	Czechoslovakia Belgium
YC	KG1 Greenland
OY	Faeroes
)Z	Denmark
Αφ,	PII Netherlands Netherlands West Indies
PIZM	Sint Maarten
KI,	2,3 Java
K4	Nother lands Remose
PK5 PK6	Netherlands Borneo Celebes & Molucca Is.
XC	Andorra
PY	Brazil
$PY\phi$	Fernando de Noronha
PY o.	Trindade & Martim Vaz Islands
ZI.	Netherlands Guiana SM Sweden
SP.	Poland
ST2	Sudan
SU	Egypt
5 V	Dodecanese
SV	Greece
TA	Turkey
TF	Iceland
TG:	Guatemala Costa Rica
T19_	Cocos Island
TJ .	Cameroons
TN	Central African Rep. Congo Rep.
TR	Gabon Rep.
TT.	Chad Rep.
TY	Dahomey Rep.
TZ .	Mali Rep.
UAI	-6, UNI European Russian
UAI	Socialist Federated Soviet Republic Franz Josef Land
UA2	
UA9	
UB5 UC2	Ukraine
UD6	
	White Russian Soviet Socialist Republic Azerbaijan
	White Russian Soviet Socialist Republic Azerbaijan Georgia
UG6	White Russian Soviet Socialist Republic Azerbaijan Georgia Armenia
UG6 UH8	White Russian Soviet Socialist Republic Azerbaijan Georgia Armenia Turkoman
UG6 UH8 UI8	White Russian Soviet Socialist Republic Azerbaijan Georgia Armenia Turkoman Uzbek Tadzhik
UG6 UH8 UI8 UJ8 UL7	White Russian Soviet Socialist Republic Azerbaijan Georgia Armenia Turkoman Uzbek Tadzhik Kazakh
UG6 UH8 UI8 UJ8 UL7 UM8	White Russian Soviet Socialist Republic Azerbaijan Georgia Armenia Turkoman Uzbek Tadzhik Kazakh Kirghiz
UG6 UH8 UI8 UJ8 UL7 UM8 UN1	White Russian Soviet Socialist Republic Azerbaijan Georgia Armenia Turkoman Uzbek Tadzhik Kazakh Kirghiz Karelo-Finnish Rep.
UG6 UH8 UI8 UJ8 UL7 UM8	White Russian Soviet Socialist Republic Azerbaijan Georgia Armenia Turkoman Uzbek Tadzhik Kazakh Kirghiz Karelo-Finnish Rep.
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UG6 UH8 UI8 UI7 UM1 UO2 UP2 UP2 UP2 VE, VK	White Russian Soviet Socialist Republic Azerbaijan Georgia Armenia Turkoman Uzbek Tadzhik Kazakh Kirghiz Karelo-Finnish Rep. Moldavia Lithuania Latvia Estonia VO Canada Australia (including Tasmania) Lord Howe Island Willis Islands
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	Turks & Caicos Islands
	Barbados
	Bahama Islands
	(See CE9)
	Falkland Islands
	LU-Z South Georgia Islands
	LU-Z South Orkney Islands
	LU-Z South Sandwich Islands
	LU-Z. CE9AN-AZ South Shetland Islands
	Bermuda Islands
	Zanzibar
	Northern Rhodesia
-	Tanganyika Territory
VQ4	Kenya
VQ5_	Uganda
VQB	British Somaliland Cargadas Carajos
VO8	Chagos Islands
VQ8	Mauritius
VQ8	Rodriguez Island
VQ9	Seychelles Phaesia Islanda
VRI_ VRI_	Gilbert & Ellice Islands & Ocean Island
VR2	Fiji Islands
VR3	Fanning & Christmas Islands
VR4	Solomon Islands
VR5	Tonga Islands
VR6.	Pitcairn Island Singapore
VS4	Sarawak
VS5.	Brunei
VS6.	Hong Kong
VS9.	Aden & Socotra
VS9	Kamaran Is.
VS9.	Maldive Islands Sultanate of Oman
VU	Andaman and Nicobar Islands
VU	India
VU_	XF Laccadive Islands Mexico
XE4	Revilla Gigedo
XT	Voltaic Rep.
XW	Laos
XZ2.	Burma Afghanistan
YI	Iraq
YJ_	(See FU8)
	Syria
YN,	YNø Nicaragua Roumania
YS	Salvador
YU.	Yugoslavia
YV_	Venezuela Aves Island
YV	Albania
ZB1	Malta
ZB2	Gibraltar
ZC4	
ZC5	
7.C6	Dalantina
ZC6 ZD1	Palestine Sierra Leone
ZD1 ZD3	Palestine Sierra Leone Gambia
ZD1 ZD3 ZD4	Palestine Sierra Leone Gold Coast, Togoland
ZD1 ZD3	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena
ZD1 ZD3 ZD4	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9 ZE_	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9 ZE_ ZK1	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Niue
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9 ZE ZK1 ZK1 ZK2 ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Niue Auckland & Campbell Islands
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ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9 ZE ZK1 ZK1 ZK2 ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Niue Auckland & Campbell Islands Chatham Islands Kermadec Islands New Zealand
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9 ZE1 ZK1 ZK1 ZK2 ZL1 ZL2 ZL2 ZL3	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Niue Auckland & Campbell Islands Chatham Islands Kermadec Islands New Zealand (See CE9)
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9 ZE ZK1 ZK1 ZK2 ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Niue Auckland & Campbell Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9 ZE1 ZK1 ZK1 ZK2 ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Niue Auckland & Campbell Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9 ZE1 ZK1 ZK1 ZK2 ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9 ZE1 ZK1 ZK1 ZK2 ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD9 ZE1 ZK1 ZK1 ZK2 ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD7 ZD8 ZD8 ZD7 ZD8 ZD7 ZD8 ZD8 ZD7 ZD8	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZK1 ZK1 ZK2 ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Basutoland Bechuanaland
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZK1 ZK2 ZK1 ZK2 ZK1 ZK2 ZK1 ZK2 ZK2 ZK3	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Niue Auckland & Campbell Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Caylon
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZK1 ZK2 ZK1 ZK2 ZK1 ZK2 ZK1 ZK2 ZK2 ZK3	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZK1 ZK2 ZK1 ZK2 ZK1 ZK2 ZK1 ZK2 ZK2 ZK3	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon I Yemen Israel
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZD7 ZK1 ZK2 ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya
ZD1 ZD3 ZD4 ZD4 ZD5 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZK1 ZK2 ZL1 ZL2 ZL3 ZK2 ZK3	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Niue Auckland & Campbell Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay , 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon I Yemen Israel Libya Nigeria
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZK1 ZK2 ZL1 ZL2 ZL3 ZK2 ZK2 ZL3 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya Nigeria Malagasy Republic Mauritania
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZK1 ZK2 ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya Nigeria Malagasy Republic Mauritania Niger Republic
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZK1 ZK2 ZL1 ZL2 ZL3 ZK2 ZK2 ZL3 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Manihiki Islands Chatham Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya Malagasy Republic Mauritania Miger Republic Togo Republic Togo Republic Togo Republic
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZK1 ZK2 ZL1 ZL2 ZL3 ZK2 ZK2 ZL3 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2 ZK2	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Swaziland Basutoland Basutoland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya Nigeria Malagasy Republic Mauritania Niger Republic Somali Republic Somali Republic Somali Republic
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZD7 ZN1 ZK2 ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands Kermadec Islands (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya Nigeria Malagasy Republic Mauritania Niger Republic Togo Republic Togo Republic Sonali Republic Senegal Republic Republic of Guinea
ZD3 ZD4 ZD6 ZD7 ZD8 ZD8 ZD7 ZD8 ZD8 ZD7 ZD8 ZD7 ZD8	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon I Yemen Israel Libya Malagasy Republic Mauritania Niger Republic Togo Republic Somali Republic Senegal Republic Republic of Guinea Ghana
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZD7 ZN1 ZK2 ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Manihiki Islands Kermadec Islands Kermadec Islands Rermadec Islands New Zealand (See CE9) Shritish Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon I Yemen Israel Libya Nigeria Malagasy Republic Mauritania Niger Republic Togo Republic Somali Republic Senegal Republic Republic of Guinea Chana Kuwait/Saudi Arabia Neutral Zone
ZD3 ZD4 ZD6 ZD7 ZD8 ZD8 ZD7 ZD8 ZD7 ZD8 ZD8 ZD7 ZD8	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya Nigeria Malagasy Republic Mauritania Miger Republic Somali Republic Senegal Republic Republic of Guinea Ghana Kuwait Kuwait/Saudi Arabia Neutral Zone Malaya
ZD3 ZD4 ZD6 ZD7 ZD8	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya Nigeria Malagasy Republic Mauritania Niger Republic Togo Republic Sonali Republic Republic of Guinea Ghana Kuwait/Saudi Arabia Neutral Zone Malaya Nepal
ZD3 ZD4 ZD6 ZD7 ZD8	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiti Islands Manihiti Islands Chatham Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya Nigeria Malagasy Republic Mauritania Niger Republic Somali Republic Somali Republic Republic of Guinea Chana Suwait/Saudi Arabia Neutral Zone Malaya Nepal Malaya Nepal Republic of Congo Saar
ZD3 ZD4 ZD6 ZD7 ZD8 ZD8 ZD7 ZD8 ZD7 ZD8 ZD8 ZD7 ZD8 ZD7 ZD8	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Chatham Islands Chatham Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya Malagasy Republic Mauritania Miger Republic Togo Republic Togo Republic Republic of Guinea Chana Kuwait/Saudi Arabia Neutral Zone Malaya Nepal S, OQ5, \$\phi\$ Republic of Congo
ZD1 ZD3 ZD4 ZD6 ZD7 ZD8 ZD7 ZD8 ZD7 ZD8 ZD7 ZK1 ZK2 ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL ZL	Palestine Sierra Leone Gambia Gold Coast, Togoland Nyasaland St. Helena Ascension Island Tristan da Cunha & Gough Island Southern Rhodesia Cook Islands Manihiki Islands Manihiki Islands Chatham Islands Kermadec Islands New Zealand (See CE9) British Samoa Tokelaus Paraguay , 2, 4, 5, 6 Union of South Africa Prince Edward & Marion Islands Southwest Africa Swaziland Basutoland Bechuanaland Monaco Tunisia Ceylon Yemen Israel Libya Malagasy Republic Mauritania Niger Republic Sonali Republic Senegal Republic Republic of Guinea Kuwait/Saudi Arabia Neutral Zone Malaya Kuwait/Saudi Arabia Neutral Zone Malaya Kuwait Kuwait/Saudi Arabia Neutral Zone Malaya Nepal S, OQ5, \$\phi\$ Republic of Congo

NOW Operate 10, 15, 20 & 40 Meters.. .. with one antenna.. On A Planned Budget!

Mosley TA-31 is an excellent beginning to your budget planned antenna system. Operates on 10, 15 & 20 meters, as a rotatable dipole, giving excellent performance over full band width.

1] Mosley TA-31 Rated to 1KW. Mosley TA-31 Ir. Rated to 300 Watts. Amateur Net \$25.65 Amateur Net \$19.75

Mosley TA-31/32 Conversion Kit adds a second element to Mosley TA-31 converting to Mosley TA-32, 10, 15 & 20 meter beam. Contains reflector element, 7' boom and all necessary hardware.

Mosley TA-31/32 2 Mosley TA-31/32 Ir. Rated to 300 Watts. Mosley TA-32 Mosley TA-32 Ir.

Rated to 1 KW. Rated to 1 KW. Rated to 300 Watts. Amateur Net \$43.65 Amateur Net \$ 29.75 Amateur Net \$69.50 Amateur Net \$49.50

Mosley TA-32/33 Conversion Kit adds a third element to the Mosley TA-32 converting to the "World Famous" Mosley TA-33, 10, 15 & 20 meter beam. Contains director element, 7' boom, boom splice and all necessary hardware.

3 Mosley TA-32/33 Mosley TA-32/33 Jr. Rated to 300 Watts. Mosley TA-33 Rated to 1 KW. Mosley TA-33 Jr.

Rated to 300 Watts.

Rated to 1 KW.

Amateur Net \$30.25 Amateur Net \$25.85 Amateur Net \$99.75 Amateur Net \$69.50

Mosley TA-40K adds "Forty Meters" to any of the models rated to 1KW listed above. Contains radiator traps and all necessary hardware. Mosley TA-40K and Mosley TA-33 can be ordered as a complete an-4) tenna package, Mosley TA-3340. When added, Mosley TA-40K does not effect the characteristics of the primary antenna and operates as a ½ wave rotatable dipole on 40 meters. Rated to 1KW.

Mosley TA-40K 40 meter adapter Mosley TA-3340

Amateur Net \$ 39.95 Amateur Net \$ 139.20

Mosley 4ST LOW PRICED

RECEIVER WITH DOUBLE CONVERSION AND CRYSTAL CONTROLLED FIRST OSCILLATOR.

RECEIVER WITH 5 DUAL-PURPOSE TUBES OF ONE TYPE AND 4 SEMI-CONDUCTOR DIODES WHICH PERFORM ALL FUNCTIONS USUALLY REQUIRING 12 OR MORE TUBE SECTIONS.

1STLOW PRICED RECEIVER WITH SELECTIV-ITY, SENSITIVITY & STABILITY THAT EQUALS RECIEVERS SELLING FOR \$ 100.00 OR MORE HIGHER.

Receiver less speaker • • • Mosley CM-1 • • • • Amateur Net \$ 182.70

Mosley CMS-1 Matching Speaker • • • • • • • • Amateur Net \$ 16.95

Slightly higher west of Rockies and outside U.S.A.

[Dipole Connector DPC-1)

Mosley DPC-1 Dipole Connector is an excellent companion to all dipole antennas. Molded of durable Cycolac plastic. Weatherproof.

Amateur Net \$1.49

Mosley TD-2, Trap Dipole, is an ideal antenna for 40 & 80 meters where a bi-directional pattern is desired. Supplied with famous Mosley "senior" trap assemblies, #14 copperweld wire, heavy duty ceramic insulators and Mosley DPC-1 Heavy Duty Connector. Overall length 114' 11''. Amateur Net \$37.54 Weighs just 7 lbs.

Mosley RD-5 is for the "Ham" who monitors the five favorite amateur frequencies 10, 15, 20, 40 and 75/80 meter bands. Mosley RD-5 operates as a ½ wave dipole on each band yet is only 69' 1" long. Your receiver will seem to have exciting new performance. Traps are weatherproof. Feed with 75 ohm line furnished.

Amateur Net \$ 15.75 Mosley RD-5

Mosley "Towermaster" is the perfect mate to your rotary beam. Available in many types to fit every installation requirement. Mosley "Towermaster" has 10 and 20 foot sections, safety clips, low friction section guides, ball bearing pulleys, pre-drilled rotor plates, geared raising winches and many more outstanding features to provide an installation you can be proud of. Available in epoxy resin or hot dipped galvanized finish.

For Additional Information Contact Your Favorite Jobber Or Write

Mosley has a complete line of high performance verticals to fit every installation need. Compact for minimum wind resistance, pretuned and completely rustproof for years of satisfactory operation.

Mosley V-3, 10, 15 and 20 meter vertical, rated Amateur Net \$ 22.95 to 1 KW.

Mosley V-4-6, 10, 15, 20 and 40 meter vertical, rated to 1 KW. Amateur Net \$ 27.95

Mosley V-4-8, 40 and 80 meter vertical, rated to Amateur Net \$ 85.00 1KW.

Mosley V-5, 10, 15, 20, 40 and 80 meter vertical, rated to 1 KW. Amateur Net \$118.50

Lossey Los Ten Coaxial Cable

- Light Weight!
- Higher Tensile Strength!
- 30 % Lower Attenuation!
- 20 Year Life Expectancy!

 Suitable for direct burial! Mosley Type

Similar To RG- 8/U RG-58/U

MT 4-50 ---MT 5-50 ---MT10 - 50 -

Prices Subject To Change Without Notice!

octronica JMC. 4610 N. LINDBERGH BLVD., BRIDGETON, MISSOURI

INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in locating the country when DX calls are heard.

C3	SIKKIM
C4	TIBET
C5	BHUTAN
P	PAKISTAN
V	
Y, (C)	CHINA
9	CHILE
E	EASTER ISLAND
ΕφΑΕ Εφ7	IUAN FERNANDEZ IS.
M-CO	CUBA
N	MOROCCO
N9	MOROCCO (Zona Norte)
P	BOLIVIA
CR4	CAPE VERDE ISLANDS
CR5	PORTUGUESE GUINEA
CR6	ANGOLA
	MOZAMBIQUE
	GOA
	MACAO
CR10	TIMOR ISLAND (Port.) PORTUGAL
CT1	AZORES ISLANDS
712	MADEIDA ICI ANDC
T3	IIRUGUAY
OI. DI	WEST GERMAN FEDERAL REP.
OM	EAST GERMAN DEMOCRATIC REP.
OU	PHILIPPINE ISLANDS
2 16	SPAIN
EA6	BALEARIC ISLANDS
A8	CANARY ISLANDS
EA9S	SPANISH SAHARA, IFNI, RIO DE ORO
	SPANISH GUINEA, RIO MUNI
EIIE	IRELAND
EL	LIBERIA
EP, EQ _	IRAN
5T2	ERITREA
ET3	ETHIOPIA
F	FRANCE
FB8 AUST	TRAI and ANTARCTIC EDENICH LANDS
	TRAL and ANTARCTIC FRENCH LANDS, insterdam, Crozet, St. Paul, Kerguelen Is.
EC.	CORSICA
D8	TOGO
	CAMEROTIN
FE8 FG7	GUADELOUPE
FG7	GUADELOUPE
FG7FH8	GUADELOUPE COMORO ISLANDS
FG7FH8	GUADELOUPE
FG7FH8 FK8FL8 FM7	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE
FG7FH8 FK8FL8 FM7FO8	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS.
FG7FH8 FK8FL8 FM7FO8FO8	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS.
FG7FH8 FK8 FL8 FM7 FO8FP8 FR7	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND
FG7FH8 FK8 FL8 FM7 FO8FP8 FR7FS7	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN
FG7FH8 FK8 FL8 FM7 FO8FP8 FR7FS7FS7FU8	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN NEW HEBRIDES
FG7FH8 FK8 FL8 FM7 FO8 FP8 FR7 FS7 FU8FS7	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS
FG7FH8 FK8 FL8 FM7 FO8FN8 FR7 FS7 FU8FS7 FW8FV8	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS FRENCH GUIANA
FG7FH8 FK8 FL8 FM7 FO8FN8 FR7 FS7 FU8FS7 FW8FV8	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS FRENCH GUIANA ENGLAND
FG7FH8 FK8 FL8 FM7 FO8FN8 FR7 FS7 FU8FV8 FY7G	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS FRENCH GUIANA ENGLAND CHANNEL ISLANDS
FG7FH8 FK8 FL8 FM7 FO8 FP8 FR7 FS7 FU8 FW8 FY7 G GC	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS FRENCH GUIANA ENGLAND CHANNEL ISLANDS ISLE OF MAN
FG7FH8 FK8 FL8 FM7 FO8FN8 FR7 FS7 FU8FV8 FY7G	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS FRENCH GUIANA ENGLAND CHANNEL ISLANDS ISLE OF MAN NORTHERN IRELAND
FG7FH8 FK8 FL8 FM7 FO8 FP8 FR7 FS7 FU8 FW8 FY7 G GC GC GD	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS FRENCH GUIANA ENGLAND CHANNEL ISLANDS ISLE OF MAN NORTHERN IRELAND SCOTLAND
FG7FH8 FK8 FL8 FM7 FO8FN7 FS7FS7 FW8FW8 FY7G GCGG GCGG GGI GGI GGI	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS FRENCH GUIANA ENGLAND CHANNEL ISLANDS ISLE OF MAN NORTHERN IRELAND SCOTLAND WALES
FG7 FH8 FK8 FL8 FM7 FO8 FP8 FR7 FS7 FU8 FW8 FY7 G GC GC GD GI GM GW HA HB	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS FRENCH GUIANA ENGLAND CHANNEL ISLANDS ISLE OF MAN NORTHERN IRELAND SCOTLAND WALES HUNGARY SWITZERLAND
FG7 FH8 FK8 FL8 FM7 FO8 FP8 FR7 FS7 FU8 FY7 G GC GC GD GI GM GW HA HB	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS FRENCH GUIANA ENGLAND CHANNEL ISLANDS ISLE OF MAN NORTHERN IRELAND SCOTLAND WALES HUNGARY SWITZERLAND ECUADOR
FG7 FH8 FK8 FL8 FM7 FO8 FP8 FR7 FS7 FU8 FY7 G GC GD GI GM GW HA HB HC HC8	GUADELOUPE COMORO ISLANDS NEW CALEDONIA FRENCH SOMALILAND MARTINIQUE MARTINIQUE FRENCH OCEANIA, CLIPPERTON IS. MIQUELON & ST. PIERRE IS. REUNION ISLAND SAINT MARTIN NEW HEBRIDES WALLIS & FUTUNA ISLANDS FRENCH GUIANA ENGLAND CHANNEL ISLANDS ISLE OF MAN NORTHERN IRELAND SCOTLAND WALES HUNGARY SWITZERLAND GALAPAGOS ISLANDS
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KC6 CAROLINE ISLANDS KG1 U. S. PERSONNEL IN GREENLAND KG4 GUANTANAMO BAY, CUBA KG6I WOLCANO ISLANDS KG6I VOLCANO ISLANDS KG6I VOLCANO ISLANDS KG6I TINIAN ISLAND KG6T TINIAN ISLAND K16 JOHNSTON ISLAND K17 ALASKA KM6 MIDWAY ISLAND K17 ALASKA KM6 MIDWAY ISLAND K17 ALASKA KM6 MIDWAY ISLAND K24 PUERTO RICO K96 PALMYRA & JARVIS ISLANDS K84 SERRANA BANK & RONCADOR CAY K854 WAKE ISLAND K854 WAKE ISLAND K86 WARKE ISLAND K875 CANAL ZONE LA NORWAY, SVALBARD, JAN MARINO MK7 ALASHARINO K86 MARTINA MATINA SAN MARINO MAP BAHREIN IS., DAS IS., MUSCAT 6 CANAL ZONE LA	KC4US	ANTARCTICA
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UI8 UZBEK UJ8 TADZHIK UL7 KAZAKH UM8 KIRGHIZ UN1 KARELO-FINNISH REPUBLIC UO5 MOLDAVIA UP LITHUANIA UQ LATVIA UR ESTONIA VE CANADA VK AUSTRALIA VK2 LORD HOWE ISLAND VK7 TASMANIA VK9 NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VK\$\psi ANTARCTICA, HEARD & MACQUARIE IS.	11010	
UJ8 KAZAKH UL7 KAZAKH UM8 KIRGHIZ UN1 KARELO-FINNISH REPUBLIC UO5 MOLDAVIA UP LITHUANIA UQ LATVIA UR ESTONIA VE CANADA VK AUSTRALIA VK2 LORD HOWE ISLAND VK7 TASMANIA VK9 NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VK\$\psi\$ ANTARCTICA, HEARD & MACQUARIE IS.		
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UN1 KARELO-FINNISH REPUBLIC UO5 MOLDAVIA UP LITHUANIA UQ LATVIA UR ESTONIA VE CANADA VK AUSTRALIA VK2 LORD HOWE ISLAND VK7 TASMANIA VK9 NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VK\$\psi\$ ANTARCTICA, HEARD & MACQUARIE IS.	UI8	
UP LITHUANIA UP LATVIA UQ LATVIA UR ESTONIA VE CANADA VK AUSTRALIA VK2 LORD HOWE ISLAND VK7 TASMANIA VK9 NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VK\$\phi\$ ANTARCTICA, HEARD & MACQUARIE IS.	UH8 UI8	TADZHIK KAZAKH
UP LITHUANIA UQ LATVIA UR ESTONIA VE CANADA VK AUSTRALIA VK2 LORD HOWE ISLAND VK7 TASMANIA VK9 NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VK\$\psi\$ ANTARCTICA, HEARD & MACQUARIE IS.	UH8 UI8 UJ8 UL7 UM8	TADZHIK KAZAKH KIRGHIZ
UQ ESTONIA UR CANADA VE CANADA VK AUSTRALIA VK2 LORD HOWE ISLAND VK7 TASMANIA VK9 NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VK\$\phi\$ ANTARCTICA, HEARD & MACQUARIE IS.	UH8 UI8 UJ8 UL7 UM8 UN1	TADZHIK KAZAKH KIRGHIZ KARELO-FINNISH REPUBLIC
UR VE CANADA VK AUSTRALIA VK2 LORD HOWE ISLAND VK7 TASMANIA VK9 NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VK\$\phi\$ ANTARCTICA, HEARD & MACQUARIE IS.	UH8 UI8 UJ8 UL7 UM8 UN1 UO5	TADZHIK KAZAKH KIRGHIZ KARELO-FINNISH REPUBLIC MOLDAVIA
VE CANADA VK AUSTRALIA VK2 LORD HOWE ISLAND VK7 TASMANIA VK9 NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VKφ ANTARCTICA, HEARD & MACQUARIE IS.	UH8 UI8 UJ8 UL7 UM8 UN1 UO5 UP	TADZHIK KAZAKH KIRGHIZ KARELO-FINNISH REPUBLIC MOLDAVIA LITHUANIA
VK2 LORD HOWE ISLAND VK7 TASMANIA VK9 NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VK\$\psi\$ ANTARCTICA, HEARD & MACQUARIE IS.	UH8 UI8 UJ8 UL7 UM8 UN1 UO5 UP UQ	TADZHIK KAZAKH KIRGHIZ KARELO-FINNISH REPUBLIC MOLDAVIA LITHUANIA LATVIA
VK7 VK9 NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VKφ ANTARCTICA, HEARD & MACQUARIE IS.	UH8 UI8 UJ8 UL7 UM8 UN1 UO5 UP UQ UR VE	TADZHIK KAZAKH KIRGHIZ KARELO-FINNISH REPUBLIC MOLDAVIA LITHUANIA LATVIA ESTONIA CANADA
VK9NEW GUINEA, PAPUA, NORFOLK, NAURU, CHRISTMAS & COCOS-KEELING IS. VKøANTARCTICA, HEARD & MACQUARIE IS.	UH8 UI8 UJ8 UL7 UM8 UN1 UO5 UP UQ UR VE VK	TADZHIK KAZAKH KIRGHIZ KARELO-FINNISH REPUBLIC MOLDAVIA LITHUANIA LATVIA ESTONIA CANADA AUSTRALIA
NAURU, CHRISTMAS & COCOS-KEELING IS. VKφANTARCTICA, HEARD & MACQUARIE IS.	UH8 UI8 UJ8 UL7 UM8 UN1 UO5 UP UQ UR VE VK2	TADZHIK KAZAKH KIRGHIZ KARELO-FINNISH REPUBLIC MOLDAVIA LITHUANIA LATVIA ESTONIA CANADA AUSTRALIA LORD HOWE ISLAND
	UH8 UI8 UJ8 UL7 UM8 UN1 UO5 UP UQ UR VE VK VK2 VK7 VK9	TADZHIK KAZAKH KIRGHIZ KARELO-FINNISH REPUBLIC MOLDAVIA LITHUANIA LATVIA ESTONIA CANADA AUSTRALIA LORD HOWE ISLAND TASMANIA NEW GUINEA, PAPUA, NORFOLK,
VOI NEWFOUNDLAND	UH8 UI8 UJ8 UL7 UM8 UN1 UO5 UP UQ UR VE VK VK2 VK7 VK9 NAU	TADZHIK KAZAKH KIRGHIZ KARELO-FINNISH REPUBLIC MOLDAVIA LITHUANIA LITHUANIA ESTONIA CANADA AUSTRALIA LORD HOWE ISLAND TASMANIA NEW GUINEA, PAPUA, NORFOLK, RU, CHRISTMAS & COCOS-KEELING IS.

W. F. State Land	LABRADOR
VP1	BRITISH HONDURAS
VP2	FEDERATION OF BRITISH TERRITORIES IN THE CARIBBEAN
VP3	BRITISH GUIANA
VP4	TRINIDAD & TOBAGO IS.
VP5	JAMAICA, CAYMAN, TURKS & CAICOS IS.
VP6	BARBADOS
VP7	BAHAMA ISLANDS
VP8	South Georgia, South Orkney, South
	Sandwich and South Shetland Is.
VP9	BERMUDA ISLANDS
VQ1	ZANZIBAR NORTHERN RHODESIA
VOA	KENYA
VQ5	UGANDA
VQ8 VQ9	CHAGOS, MAURITIUS & RODRIGUEZ IS. SEYCHELLES
VR1	GILBERT, ELLICE & OCEAN ISLANDS
VR2	FIJI ISLANDS LINE ISLANDS
VR4	SOLOMON ISLANDS
VR5	TONGA (Friendly) ISLAND
VR6	PITCAIRN ISLAND
VS1	SINGAPORE
CZCE	BRUNEI
VS6	HONG KONG
VS9	ADEN, SOCOTRA, KAMARAN & MALDIVE IS.
VU	INDIA
VU4	ANDAMAN & NICOBAR IS.
VU5	UNITED STATES
XE	MEXICO
XE4	REVILLA GIGEDO IS. Rep. of LIPPER VOLTA
XU	Rep. of UPPER VOLTA CAMBODIA
XW8	LAOS
YA	BURMA
YI	IRAQ
YK	SYRIA
YN	NICARAGUA
YS	RUMĀNIA EL SALVADOR
YT, YU	JYUGOSLAVIA VENEZUELA
ZA	ALBANIA
ZB1	GIBRALTAR
ZC4	CYPRUS
ZC5	BRITISH NORTH BORNEO SIERRA LEONE
7.D3	GAMBIA
ZD6	NYASALAND
ED0	SAINT HELENA
ZD8	ASCENSION ISLAND
ZD9	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN BHODESIA
ZD9 ZE ZK1	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS
ZD9 ZE ZK1 ZK2	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND
ZD9 ZE ZK1 ZK2	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC
ZD9 ZE ZK1 ZK2 ZL ZL1 ZM	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY
ZD9 ZE ZK1 ZK2 ZL ZL1	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA
ZD9 ZE ZK1 ZK2 ZL ZL1 ZM ZP ZS ZS2	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS.
ZD9 ZE ZK1 ZK2 ZL ZL1 ZM ZP ZP	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND
ZD9 ZE ZK1 ZK2 ZL1 ZL1 ZM ZP ZS2 ZS2 ZS3 ZS7 ZS7 ZS8	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND
ZD9 ZE ZK1 ZK2 ZL1 ZL1 ZM ZP ZS ZS2 ZS3 ZS3 ZS7	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND
ZD9 ZE ZK1 ZK2 ZL1 ZL1 ZM ZP ZS2 ZS3 ZS3 ZS3 ZS7 ZS8 ZS9 ZS9 ZS9 3A2 3V8	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BASUTOLAND BECHUANALAND MONACO TUNISIA
ZD9 ZE ZK1 ZK2 ZL1 ZL1 ZM ZP ZS2 ZS3 ZS2 ZS3 ZS7 ZS8 ZS9 ZS9 ZS9 ZS9 ZS9 ZS9 ZS9	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BECHUANALAND
ZD9 ZE ZK1 ZK2 ZL1 ZL1 ZM ZP ZS2 ZS3 ZS3 ZS3 ZS7 ZS8 ZS9 ZS9 ZS9 ZS9 ZS9 ZS9 ZS9 ZS9 ZS9 ZS9	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BECHUANALAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN
ZD9 ZE ZK1 ZK2 ZL1 ZM ZP ZS ZS2 ZS3 ZS7 ZS8 ZS9 ZS9 3A2 3V8 3V8 4S7 4W1 4W1 4X4	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON
ZD9 ZE ZK1 ZK2 ZL1 ZL1 ZM ZP ZS2 ZS3 ZS7 ZS8 ZS7 ZS8 ZS9 3A2 3V8 3V8 4S7 4W1 4W1 4X4 5A 5H3	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN ISRAEL LIBYA TANGANYIKA
ZD9 ZE ZK1 ZK2 ZL1 ZM ZP ZS ZS2 ZS3 ZS7 ZS8 ZS9 ZS9 3A2 ZS9 3A2 ZS9 3A2 ZS9 3A2 ZS9 ZS9 ZS9 ZS9 ZS9 ZS9 ZS9 ZS9	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN ISRAEL LIBYA TANGANYIKA NIGERIA MALAGASY REP. (Madagascar),
ZD9 ZE ZK1 ZK2 ZL ZL1 ZM ZP ZS ZS2 ZS3 ZS7 ZS8 ZS9 ZS9 3A2 3V8 3V8 4S7 4W1 4X4 5A 5N2 5N2 5N2 5R8	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN ISRAEL LIBYA TANGANYIKA NIGERIA MALAGASY REP. (Madagascar), Tromelin Is.
ZD9 ZE ZK1 ZK2 ZL1 ZL1 ZM ZP ZS ZS2 ZS3 ZS7 ZS8 ZS9 3A2 3V8 3V8 4S7 4W1 4X4 5A 5H3 5H3 5N2 5R8	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN ISRAEL LIBYA TANGANYIKA NIGERIA MALAGASY REP. (Madagascar),
ZD9 ZE ZK1 ZK2 ZL1 ZL1 ZM ZP ZS ZS2 ZS3 ZS7 ZS8 ZS9 3A2 3V8 3V8 4S7 4W1 4X4 5A 5H3 5H3 5N2 5R8 ST5 SU7 6O	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN ISRAEL LIBYA TANGANYIKA NIGERIA MALAGASY REP. (Madagascar), Tromelin Is. MAURITANIA NIGER SOMALI REPUBLIC
ZD9 ZE ZK1 ZK2 ZL ZL1 ZL1 ZM ZP ZS ZS2 ZS3 ZS7 ZS8 ZS9 3A2 3V8 3V8 4S7 4W1 4X4 5A 5H3 5N2 5R8 ST5 SU7 6O 6W8	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN ISRAEI LIBYA TANGANYIKA NIGERIA MALAGASY REP. (Madagascar), Tromelin Is. MAURITANIA NIGER SOMALI REPUBLIC SENEGAL
ZD9 ZE ZK1 ZK2 ZL1 ZL1 ZM ZP ZS ZS2 ZS3 ZS7 ZS8 ZS9 3A2 3V8 3V8 4S7 4W1 4X4 5A 5H3 5H3 5N2 5R8 ST5 SU7 6O	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN ISRAEL LIBYA TANGANYIKA NIGERIA MALAGASY REP. (Madagascar), Tromelin Is. MAURITANIA NIGER SOMALI REPUBLIC SENEGAL REPUBLIC OF GUINEA GHANA
ZD9 ZE ZK1 ZK2 ZK1 ZK2 ZL ZLI ZM ZP ZS ZS2 ZS3 ZS7 ZS8 ZS7 ZS8 ZS9 3A2 3V8 4S7 4W1 4X4 5A 5H3 5N2 5R8 5T5 5U7 6O 6W8 7G1 9K2	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN ISRAEL LIBYA TANGANYIKA NIGERIA MALAGASY REP. (Madagascar), Tromelin Is. MAURITANIA NIGER SOMALI REPUBLIC SENEGAL REPUBLIC OF GUINEA
ZD9 ZE ZK1 ZK2 ZL ZL1 ZL1 ZM ZP ZS ZS2 ZS3 ZS7 ZS8 ZS9 3A2 3V8 3V8 4S7 4W1 4X4 5A 5H3 5N2 5R8 5T5 5U7 6O 6W8 7G1 9G1	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN ISRAEL LIBYA TANGANYIKA NIGERIA MALAGASY REP. (Madagascar), Tromelin Is. MAURITANIA NIGER SOMALI REPUBLIC SENEGAL REPUBLIC OF GUINEA GHANA KUWAIT
ZD9 ZE ZK1 ZK2 ZL1 ZL1 ZM ZP ZS ZS2 ZS3 ZS7 ZS8 ZS9 3A2 3V8 3V8 4S7 4W1 4X4 5A 5H3 5N2 5R8 5T5 5U7 6O 6W8 7G1 9K2 9K2 9M2	ASCENSION ISLAND TRISTAN DA CUNHA & GOUGH ISLANDS SOUTHERN RHODESIA COOK ISLANDS NIUE NEW ZEALAND KERMADEC WESTERN SAMOA PARAGUAY Rep. of SOUTH AFRICA PRINCE EDWARD & MARION IS. SOUTHWEST AFRICA SWAZILAND BASUTOLAND BECHUANALAND MONACO TUNISIA VIETNAM CEYLON YEMEN ISRAEL LIBYA TANGANYIKA NIGERIA MALAGASY REP. (Madagascar), Tromelin Is. MAURITANIA NIGER SOMALI REPUBLIC SENEGAL REPUBLIC OF GUINEA GHANA KUWAIT FEDERATION OF MALAYA



from Henry

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SX111	27.00	14.00	279.50
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PREFIXES—BY COUNTRIES

The following countries listed in alphabetical order by country show international radio amateur prefixes. Characters in () designate the continent and zone in which the country is located. Abbreviations are as follows: A—Asia, AF—Africa, E—Europe, NA—North America, O—Oceania, SA—South America.

E TOTAL	(8.01)	1700
ADENAFGHANISTAN	(A-21)	VS9
ALASKA		OΗφ KL7
ALBANIA	(E-15)	ZA
ALGERIA	(AF-33)	FB8
AMSTERDAM & ST. PAUL IS ANDAMAN & NICOBAR IS	_(A-26)	VU5
ANDORRAANGOLA		CR6
ANGUILLA	(NA-8)	VP2
ANTARCTICA	(SA-13)	KC4US
ANTIGUA, BARBUDA		VKø VP2
ARGENTINA	(SA-13)	LU
ASCENSION ISLAND	_(AF-36) _(O-29 & 30)_	
AUSTRIA	_(E-15)	OE
BAHAMA ISLANDS		VP7
BAHREIN ISLANDS		MP4
BAKER ISLAND		EA6
BARBADOS BARBADOS		VP6
BASUTOLAND		ZS8 ZS9
BECHUANALANDBELGIUM	(E-14)	ON
BERMUDA ISLANDS		VP9
	_(A-22) _(SA-10)	CP
BORNEO	_(O-28)	PK5
BRAZIL BRITISH HONDURAS	(SA-11) (NA-7)	PY VP1
BRITISH NORTH BORNEO	(A-28)	ZC5
BRITISH PHOENIX ISLANDS BRITISH TERRITORIES IN THE	(0-31)	VR1
CARIBBEAN, FED. OF	(NA-8)	VP2
BRITISH VIRGIN ISLANDS	(NA-8)	VP2
BULGARIA	(E-20)	LZ
BURMA	(A-26)	XZ
CAMBODIA	_(A-26)	FE8
CANADA	_(NA-1 to 5)_	
CANAL ZONE	_(NA-7) _(AF-33)	EA8
CANTON ISLAND	(0-31)	KB6
CAPE VERDE ISLANDS	(AF-35)	CR4
CAYMAN ISLANDS	_(O-27) _(NA-8)	KC6
CELEBES & MOLUCCA	(8.00)	חשפ
ISLANDSCENTRAL AFRICAN REPUB		
CEYLON	(A-22)	4S7
CHAGOS ISLANDSCHANNEL ISLANDS		
CHILE		CE
CHILE	(SA-12) (A-23 & 24)	BY
CHILE	(SA-12) (A-23 & 24) (O-29)	The second secon
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7)	BY VK9 FO8 TI9
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS.	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29)	BY VK9 TI9 VK9
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-39)	VK9 FO8 TI9 VK9 HK
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-39) (AF-36)	VK9 FO8 TI9 VK9 HK FH8 TN8
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (O-32)	VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (C-32) (E-15)	VK9 FO8 TI9 VK9 HK HK TN8 SQ5 ZKI
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (C-32) (E-15) (NA-7) (E-20)	VK9 FO8 TI9 VK9 HK HK FH8 TN8 SV
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39)	VK9 FO8 TI9 VK9 HK FH8 TN8 SV FB8
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (AF-36) (AF-36) (AF-36) (AF-36) (E-15) (NA-7) (E-20) (AF-39) (AF-39) (AF-39) (AF-39)	VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (C-32) (E-15) (NA-7) (E-20) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39)	VK9 FO8 TI9 VK9 HK FH8 TN8 SV FC TI SV FB8 CM, CO ZC4 OK
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (C-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35)	VK9 FO8 TI9 VK9 HK FH8 TN8 SV FB8 CM, CO ZC4 OK TY2
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (C-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (A-21) (E-14)	VK9 FO8 TI9 VK9 HK FH8 TN8 SV FB8 CM, CO FB8 CM, CO ZC4 OK TY2 MP4 OZ
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS	(A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (AF-36) (AF-36) (AF-36) (AF-36) (AF-36) (AF-36) (AF-39) (E-15) (AA-7) (E-20) (AF-39) (AA-8) (A-20) (E-15) (A-21) (E-14) (E-20)	VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICAN REPUBLIC	(A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (A-20) (E-15) (A-20) (E-14) (E-20) (A-21) (E-20) (A-21) (E-20) (A-21) (E-20) (A-21) (E-20) (A-21)	VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICAN REPUBLIC EASTER ISLAND	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (A-21) (E-14) (E-20) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8)	VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICA DOMINICA CESTER ISLAND ECUADOR EGYPT	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (C-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34)	PY VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBĂ CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICA DOMINICA DOMINICA REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR	(SA-12) (A-23 & 24) (O-29) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (SA-12) (SA-12) (SA-10) (AF-34) (NA-7)	
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICA DOMINICA EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND	(A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8)	VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 G
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA	(A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (AF-36) (AF-36) (AF-39) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (SA-12) (SA-12) (SA-10) (AF-34) (NA-7) (O-31) (E-14) (C-14) (C-14) (C-14) (C-14) (C-14)	
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (AF-36) (C-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (O-31) (E-14) (E-14) (E-14)	
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBĂ CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICA DOMINICA DOMINICA DOMINICA EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FALKLAND ISLANDS	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (AF-39) (AF-35) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (O-31) (E-14) (E-14) (E-14) (E-14) (SA-13)	
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICA DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FALKLAND ISLANDS FALKLAND ISLANDS FALKLAND ISLANDS FANNING ISLANDS	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (O-31) (E-14) (E-14) (AF-37) (AF-37) (AF-37) (AF-37) (AF-37)	VK9 FO8 T19 VK9 HK FH8 TN8 9Q5 ZKI FC T1 SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YP3 KB6 G ET2 ET3 OY VP8 VR3
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FANNING ISLAND FERNANDO DE NORONHA FIJI ISLANDS	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (SA-12) (SA-12) (SA-10) (AF-34) (NA-7) (O-31) (E-14) (E-14) (SA-13) (O-31) (SA-13) (O-32)	VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GY VP8 VR3 PYØ VR2
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FANNING ISLAND FERNANDO DE NORONHA FIJI ISLANDS FINLAND	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-39) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (O-31) (E-14) (AF-37) (AF-37) (AF-37) (AF-37) (AF-37) (AF-37) (E-14) (SA-13) (O-31) (SA-13) (O-31) (SA-13) (O-32) (E-15)	BY VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GET2 ET3 OY VP8 VR3 PYØ VR2 OH
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FANNING ISLAND FERNANDO DE NORONHA FIJI ISLANDS FINLAND FORMOSA FRANCE	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-39) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (C-31) (E-14) (AF-37) (AF-37) (AF-37) (AF-37) (AF-37) (AF-37) (E-14) (SA-13) (O-31) (SA-13) (O-31) (SA-13) (O-32) (E-14)	VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GET2 ET3 OY VP8 VR3 PYØ VR2 OH BV F
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FANNING ISLAND FERNANDO DE NORONHA FIJI ISLANDS FINLAND FORMOSA FRANCE FRENCH OCEANIA	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-39) (AF-36) (AF-36) (AF-36) (C-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (AF-37) (C-31) (E-14) (SA-13) (O-31) (SA-13) (O-31) (SA-13) (O-32) (E-15)	FO8 FO8 FO8 FT19 VK9 HK FH8 FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GET2 ET3 OY VP8 VR3 PYØ VR2 FO8
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FALKLAND ISLANDS FANNING ISLAND FERNANDO DE NORONHA FIJI ISLANDS FINLAND FORMOSA FRANCE FRENCH OCEANIA GABON REPUBLIC GALAPAGOS ISLANDS	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (AF-36) (C-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-37)	BY VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GET2 ET3 OY VR8 VR3 PYØ VR8 VR3 PYØ VR8 TR8 HC8
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FALKLAND ISLANDS FALKLAND ISLAND FERNANDO DE NORONHA FIJI ISLANDS FANNING ISLAND FORMOSA FRANCE FRENCH OCEANIA GABON REPUBLIC GALAPAGOS ISLANDS GAMBIA	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (AF-36) (C-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-37)	BY VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GET2 ET3 OY VR8 VR3 PYØ VR8 VR3 PYØ VR8 TR8 HC8
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FANNING ISLAND FERNANDO DE NORONHA FIJI ISLAND FINLAND FINLAND FORMOSA FRANCE FRENCH OCEANIA GABON REPUBLIC GALAPAGOS ISLANDS GAMBIA GERMAN FEDERAL REP., WEST	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-39) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (C-31) (E-14) (AF-37)	BY VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 WP2 HI CEØA HC SU YS KB6 GET2 ET3 OY VP8 VR3 PYØ VR2 OH BV FO8 TR8 HC8 ZD3
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICA DOMINICA EGYPT EL SALVADOR ENGLAND ECUADOR EGYPT EL SALVADOR ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FANNING ISLAND FANNING ISLAND FERNANDO DE NORONHA FIJI ISLANDS FANNING ISLAND FINLAND FORMOSA FRANCE FRENCH OCEANIA GABON REPUBLIC GALAPAGOS ISLANDS GAMBIA GERMAN FEDERAL REP., WEST GERMAN DEMOCRATIC	(A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (C-31) (E-14) (AF-37)	BY VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GET2 ET3 OY VR3 PYØ VR2 OH BV FO8 TR8 HC8 ZD3 DJ, DL
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FANNING ISLAND FERNANDO DE NORONHA FIJI ISLAND FINLAND FINLAND FORMOSA FRANCE FRENCH OCEANIA GABON REPUBLIC GALAPAGOS ISLANDS GAMBIA GERMAN FEDERAL REP., WEST	(SA-12) (A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-39) (AF-36) (AF-36) (AF-36) (AF-39) (AF-39) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (O-31) (E-14) (AF-37) (AF-37) (E-14) (SA-13) (O-31) (SA-11) (O-32) (E-15) (AF-36) (SA-10) (AF-37) (E-14) (SA-13) (O-31) (SA-11) (O-32) (E-15) (AF-36) (SA-10) (AF-37) (E-14) (C-32) (E-15) (AF-36) (C-31) (C-31) (C-32) (C-32) (C-32) (C-33) (C-34) (C-34) (C-34) (C-34) (C-34) (C-34) (C-35)	FO8 FO8 FO8 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 G ET2 ET3 OY VR8 VR3 PYØ VR2 OH BV FFO8 TR8 HC8 ZD3 DJ, DL DM 9G1
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FANNING ISLAND FERNANDO DE NORONHA FIJI ISLAND FERNANDO DE NORONHA FIJI ISLANDS FANNING ISLAND FORMOSA FRÂNCE FRENCH OCEANIA GABON REPUBLIC GALAPAGOS ISLANDS GAMBIA GERMAN FEDERAL REP., WEST GERMAN DEMOCRATIC REP., EAST GHANA GIBRALTAR	(A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (AF-36) (AF-36) (AF-39) (NA-7) (E-20) (AF-39) (NA-8) (A-20) (E-15) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-7) (O-31) (E-14) (AF-37) (AF-37) (AF-37) (AF-37) (E-14) (SA-13) (O-31) (SA-11) (O-32) (E-14) (C-32) (E-15) (AF-36) (SA-10) (AF-35) (AF-35) (E-14)	FO8 FO8 FO8 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GC ET2 ET3 OY VP8 VR3 PYØ VR2 OH BV FF FO8 TR8 HC8 ZD3 DJ, DL DM 9G1 ZB2
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICAN DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FALKLAND ISLAND FERNANDO DE NORONHA FIJI ISLANDS FINLAND FORMOSA FRÂNCE FRENCH OCEANIA GABON REPUBLIC GALAPAGOS ISLANDS GAMBIA GERMAN FEDERAL REP., WEST GERMAN DEMOCRATIC REP., EAST GHANA GILBERT ISLANDS GOA	(A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-35) (A-21) (E-14) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (O-31) (E-14) (SA-37) (E-14) (SA-13) (O-31) (SA-11) (O-32) (E-14) (C-32) (E-15) (AF-36) (SA-10) (AF-37) (E-14) (C-32) (E-14) (C-32) (E-14) (C-32) (E-14) (C-32) (E-14) (C-32) (C-14) (C-32)	FO8 FO8 FO8 FO8 FO8 FO8 FI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GC ET2 ET3 OY VP8 VR3 PYØ VR2 OH BV FO8 TR8 HC8 ZD3 DJ, DL DM 9G1 ZB2 VR1
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICAN DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FALKLAND ISLAND FERNANDO DE NORONHA FIJI ISLAND FINLAND FORMOSA FRANCE FRENCH OCEANIA GABON REPUBLIC GALAPAGOS ISLANDS GAMBIA GERMAN FEDERAL REP., WEST GERMAN DEMOCRATIC REP., EAST GHANA GIBHALTAR GILBERT ISLANDS GOA GREECE	(A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-35) (AF-35) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (O-31) (E-14) (AF-37) (E-14) (AF-37) (E-14) (SA-13) (O-31) (SA-11) (O-32) (E-15) (AF-36) (SA-10) (AF-37) (E-14) (C-32) (E-15) (AF-36) (SA-10) (AF-35) (E-14) (O-32) (E-14)	BY VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GET2 ET3 OY VP8 VR3 PYØ VR2 OH BV FF8 FO8 TR8 HC8 ZD3 DJ, DL DM 9G1 ZB2 VR1 CR8 SV
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICAN DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FALKLAND ISLAND FERNANDO DE NORONHA FIJI ISLANDS FINLAND FORMOSA FRÂNCE FRENCH OCEANIA GABON REPUBLIC GALAPAGOS ISLANDS GAMBIA GERMAN FEDERAL REP., WEST GERMAN DEMOCRATIC REP., EAST GHANA GILBERT ISLANDS GOA	(A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (C-31) (E-14) (AF-37)	BY VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 VP2 HI CEØA HC SU YS KB6 GET2 ET3 OY VP8 VR3 PYØ VR2 OH BV FF8 FO8 TR8 HC8 ZD3 DJ, DL DM 9G1 ZB2 VR1 CR8 SV
CHILE CHINA CHRISTMAS ISLAND CLIPPERTON ISLAND COCOS ISLAND COCOS-KEELING IS. COLOMBIA COMORO ISLANDS CONGO REPUBLIC CONGO, REPUBLIC OF THE COOK ISLANDS CORSICA COSTA RICA COSTA RICA CRETE CROZET ISLAND CUBA CYPRUS CZECHOSLOVAKIA DAHOMEY REPUBLIC DAS ISLAND DENMARK DODECANESE ISLANDS DOMINICA DOMINICAN REPUBLIC EASTER ISLAND ECUADOR EGYPT EL SALVADOR ENDERBURY ISLAND ENGLAND ENGLAND ERITREA ETHIOPIA FAEROES ISLANDS FALKLAND ISLANDS FALKLAND ISLANDS FANNING ISLAND FORMOSA FRANCE FRENCH OCEANIA GABON REPUBLIC GALAPAGOS ISLANDS GAMBIA GABON REPUBLIC GALAPAGOS ISLANDS GAMBIA GERMAN FEDERAL REP., WEST GERMAN DEMOCRATIC REP., EAST GHANA GIBBALTAR GILBERT ISLANDS GOA GREECE GREENLAND	(A-23 & 24) (O-29) (NA-7) (NA-7) (O-29) (SA-9) (AF-36) (AF-36) (AF-36) (O-32) (E-15) (NA-7) (E-20) (AF-39) (NA-8) (NA-8) (A-21) (E-14) (E-20) (NA-8) (NA-8) (NA-8) (SA-12) (SA-10) (AF-34) (NA-7) (O-31) (E-14) (AF-37) (AF-37) (AF-37) (E-14) (SA-13) (O-31) (SA-11) (O-32) (E-14) (C-32) (E-14) (C-32) (E-14) (C-32) (E-14) (C-32) (E-14) (C-32) (C-15) (AF-36) (C-14) (C-32) (C-15) (AF-36) (C-14) (C-32) (C-14)	BY VK9 FO8 TI9 VK9 HK FH8 TN8 9Q5 ZKI FC TI SV FB8 CM, CO ZC4 OK TY2 MP4 OZ SV5 WP2 HI CEØÄ HC SU YS KB6 GET2 ET3 OY VP8 VR3 PYØ VR2 OH BV FF FO8 TR8 HC8 ZD3 DJ, DL DM 9G1 ZB2 VR1 CR8 SV OX

ows: A-Asia, AF-Africa, E-	-Europe,	NA—North	A
GUANTANAMO BAY	(NA-8)	KG4	
GUATEMALA GUIANA, BRITISH	(NA-7) (SA-9)	VP3	
GUIANA, FRENCH	(SA-9) _	FY7	
GUINEA, PORTUGUESE	(AF-35)	CR5	
GUINEA, REPUBLIC OF			
HAITI HAWAIIAN ISLANDS	_(O-31) _	KH6	
HEARD ISLAND	(O-39) ₋	VKφ	
HONDURASHONG KONG	(NA-7)	VS6	
HOWLAND ISLAND	.(O-31) _	KB6	
HUNGARY	_(E-15)	HA	
ICELANDIFNI	_(E-40)	FAO	
INDIA	(A-22)	VU	
INDONESIA		PK PC	
IRAN	(A-21)	EP, EQ	
IRELAND		EI	
ISLE OF MAN	Committee of the commit	4X4	
ITALY	_(E-15)	i	
IVORY COAST	_(AF-35)	TU2	
JAMAICA		VP5	
JAN MAYEN ISLAND		LA IA	
JARVIS ISLAND	_(0-31) _	KP6	
JAVA JOHNSTON ISLAND		PK1-2-3	
IORDAN	_(A-20) _	JY	
JUAN FERNANDEZ IS.	_(SA-12)		
KAMARAN IS.	_(A-21) _	VS9	
KENYAKERGUELEN ISLANDS	(AF-39)	FB8	
KERMADEC ISLANDS	_(0-32)	ZL1	
KOREA KUWAIT	_(A-25)	HM, HL9	
LABRADOR			
LACCADIVE ISLANDS	(A-22)	VU4	
LAOS	_(A-26) _	XW8	
LEBANON REPUBLICLIBERIA			
LIBYA	_(AF-34)	5A	
LIECHTENSTEINLINE ISLANDS			
LITTLE AMERICA			
LORD HOWE ISLAND	_(O-30) _	VK2	
LUXEMBOURG			
MACQUARIE ISLAND			
MADEIRA ISLANDS	_(AF-33)	CT3	
MALAGASY REP. (Madagascar)	(AF-39)	5R8	
MALAYA, FEDERATION OF	_(A-28) _	9M2	
MALDIVE ISLANDS		VS9 TZ	
MALTA	(E-15) _	ZB1	
MANCHURIA			
MARIANAS ISLANDS (Guam). MARSHALL ISLANDS	(0-31)	KX6	
MARTINIQUE	_(NA-8) .	FM7	
MAURITANIA MAURITIUS IS.	(AF-35)	5T5	
MEXICO		The second second	
MIDWAY ISLAND			
MIQUELON ISLAND	(E-14)	3A2	
MONGOLIA	_(A-23) _	JT1	
MONTSERRATMOROCCO	(NA-8)	CN CN	
MOROCCO (Zona Norte)	(AF-33)	CN9	
MOZAMBIQUE	_(AF-37)	CR7	
MUSCAT & OMAN			
NAURU ISLANDNAVASSA ISLAND	(NA-8)	KC4	
NEPAL	_(A-22) _	9N1	
NETHERLANDS ANTILLES	(E-14) _	PA, PI	
NETHERLANDS NEW GUINEA	(O-28) .	JZφ	
NEW CALEDONIA			
NEWFOUNDLAND NEW GUINEA, N.E.	_(NA-5) _(O-28)	VK9	
NEW HEBRIDES	_(0-32) _	FU8, Y]	
NEW ZEALANDNICARAGUA		ZI YN	
NIGER	_(AF-35)	5U7	
NIGERIA			
NIUE NORFOLK ISLAND			
NORTHERN IRELAND	_(E-14) _	G1	
NORWAYNYASALAND		LA ZD6	
OKINAWA	_(A-25) .	KR6, KR8	
OMAN	_(A-21)	MP4	
PAKISTAN		(2)AP	
PALMYRA ISLANDSPANAMA	The second second	KP6	
PAPUA TERRITORY	_(O-28) _	VK9	
PARAGUAY	_(SA-11)	ZP)
PERU PHILIPPINE ISLANDS			
PHOENIX ISLANDS	_(0-31) _	KB6	
POLAND POLAND	-(0-32) $-(E-15)$	VR	
PORTUGAL	_(E-14) _	CTI	
PRINCE EDWARD &			
MARION ISLANDS PUERTO RICO			
OATAR			

REUNION ISLANDREVILLA GIGEDO		200
	(AF-39)	FR7
PHODECIA MODELLEDM	(AE 26)	3700
RHODESIA, NORTHERN	(AF-30)	
RHODESIA, SOUTHERN		
RIO DE ORO		
RIO MUNI	(AF-36)	$EA\phi$
RODRIGUEZ ISLAND	(AF-39)	VQ8
RUANDA-URUNDI	(AF-36)	9U5
RUMANIA	(E-20)	YO
RYUKYU ISLANDS	(A-25)	KR6. KR8
	*	
SAINT HELENA	(AF-36)	ZD7
SAINT KITTS, NEVIS	(NA-8)	VP2
SAINT LUCIA	(NA-8)	VP2
SAINT MARTIN	-	
SAINT PIERRE ISLAND		
SAINT VINCENT IS.		
SAIPAN ISLAND		
SAMOA (U.S.)	(O-32)	KS6
SAMOA, WESTERN	(O-32)	ZM
SAN ANDRES & PROVIDENCIA		HKø
SAN MARINO		MI
SARAWAK		VS4
SARDINIA		
SAUDI ARABIA		
SCOTLAND		
SENEGAL	_(AF-35) _	- W8
SERRANA BANK &		
RONCADOR CAY	(NA-7)	KS4B
SEYCHELLES		
SICILY		
SIERRA LEONE	(AF-35)	ZD1
SIKKIM		
SINGAPORE	(A-28)	VSI
SINT MAARTEN	(NA-8)	PJ2M
SOCOTRA ISLAND	4	
SOLOMON ISLANDS		
SOMALI REPUBLIC	(AF-3/) .	
SOMALILAND, French	(AF-37)	FL8
SOUTH AFRICA, Rep. of		ZS
SOUTH GEORGIA		VP8
SOUTH ORKNEY ISLANDS	(SA-13)	VP8
SOUTH SANDWICH ISLANDS	(SA-13)	VP8
SOUTH SHETLAND ISLANDS.	(CX 12)	VP8
	(SE-10)	700
SOUTHWEST AFRICA	(AF-38) _	ZS3
SOVIET UNION:		
EUROPEAN RUSSIAN SOCIA	LIST	
FEDERATED SOVIET REP	(E-16) II/	A1. 3. 4. 6
ASIATIC RUSSIAN S.F.S.R.		UA9, φ
	The same of the sa	UB5
UKRAINE	1	
WHITE RUSSIAN S.S.R.	(E-10)	UC2
AZERBAIJAN	(E-21)	UD6
GEORGIA	(E-21)	UF6
ARMENIA	(E-21)	UG6
TURKMEN	(B-17)	TITIE
UZBEK	13 17)	IIIS
	(3 17)	010
TADZHIK	(A-17)	UJ0
KAZAKH	(A-17)	UL/
KIRGHIZ	. (A-17)	UM8
KARELO-FINNISH REP	(E-16)	UN1
MOLDAVIA	(E-16)	UO5
LITHIIANIA	(E-15)	IIP
LATVIA	(E-15)	IIO
ESTONIA	(E-15)	IIR
00.2711	- 123 - 43	EA
SPAIN	(E-14)	
SPANISH GUINEA	(AF-36)	ΕΑφ
SPANISH SAHARA	(A-33)	EA9
CIID & M	(AF-34)	ST
SUDAN	original and of an	
SUMATRA	(A-28)	PK4
DUMENTAL	(A-28)	PK4
SURINAM (Netherlands		PK4
SURINAM (Netherlands Guiana)	(SA-9)	PK4
SURINAM (Netherlands Guiana) SVALBARD	(SA-9) (E-40)	LA
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND	(SA-9) (E-40) (NA-7) _	KS4
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND	(SA-9) (E-40) (NA-7) (AF-38) _	KS4 ZS7
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN	(SA-9) (E-40) (NA-7) (AF-38) (E-14)	LA KS4 ZS7 SL, SM
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14)	XS4 ZS7 SL, SM HB
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20)	KS4 ZS7 SL, SM HB
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20)	KS4 ZS7 SL, SM HB
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37)	LA KS4 ZS7 SL, SM HB YK 5H3
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30)	LA KS4 ZS7 SL, SM HB YK 5H3 VK7
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36)	KS4 ZS7 SL, SM HB YK 5H3 VK7
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND	(SA-9)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (AF-36) (A-26) (A-23)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-28)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-28) (O-27)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-28) (O-27) (AF-35)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-28) (O-27) (AF-35)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-28) (O-27) (AF-35) (O-32)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-28) (O-27) (AF-35) (O-32)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (AF-36) (A-26) (A-23) (O-28) (O-27) (AF-35) (O-32) (E-15)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 AC4 CR10 KG6T FD8 VR5
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS.	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-28) (O-27) (AF-35) (O-32) (E-15)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-28) (O-27) (AF-35) (O-32) (E-15)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA &	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (AF-36) (A-26) (A-23) (O-28) (O-28) (O-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-28) (O-27) (AF-35) (O-32) (E-15) (SA-11) (SA-9)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PYØ VP4 ZD9
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-28) (O-27) (AF-35) (C-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PYØ VP4 ZD9 FB8
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-27) (AF-35) (O-27) (AF-35) (C-15) (SA-11) (SA-9) (AF-39) (AF-39)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PY VP4 ZD9 FB8 MP4
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-27) (AF-35) (O-27) (AF-35) (C-15) (SA-11) (SA-9) (AF-39) (AF-39)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PY VP4 ZD9 FB8 MP4
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLAND TRUCIAL OMAN TUNISIA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-26) (A-26) (A-27) (AF-35) (C-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PY VP4 ZD9 FB8 MP4 3V8
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-28) (O-27) (AF-35) (O-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PYØ VP4 ZD9 FB8 MP4 3V8 TA
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-27) (AF-35) (O-27) (AF-35) (C-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PYØ VP4 ZD9 FB8 MP4 3V8 TA VP5
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-27) (AF-35) (O-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-37)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PY¢ VP4 ZD9 FB8 MP4 ZD9 FB8
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-27) (AF-35) (O-27) (AF-35) (C-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-31) (AF-32) (AF-33) (AF-33) (AF-33) (AF-33)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PYØ VP4 ZD9 FB8 MP4 3V8 TA VP5 VQ5 VQ5 W, K
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-27) (AF-35) (O-27) (AF-35) (C-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-31) (AF-32) (AF-33) (AF-33) (AF-33) (AF-33)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PYØ VP4 ZD9 FB8 MP4 3V8 TA VP5 VQ5 VQ5 W, K
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-27) (A-23) (O-27) (AF-35) (C-27) (AF-35) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39)	LA KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 I1 PYØ VP4 ZD9 FB8 MP4 3V8 TA VP5 VQ5 VQ5 5) W, K XT2
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-28) (O-27) (AF-35) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-31) (AF-32) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33)	LA KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 I1 PY VP4 ZD9 FB8 MP4 ZD9 FB8 MP4 3V8 TA VP5 VP5 VQ5 5) W, K XT2 CX
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-27) (AF-35) (C-27) (AF-35) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-31) (AF-32) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PY VP4 ZD9 FB8 MP4 ZD9 FB8 MP4 ZD9 FB8 MP4 ZD9 FB8 MP4 XVP5 VP5 VP5 VQ5 VQ5 S) W, K XT2 CX HV
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINDADE & MARTIM VAZ IS. TRINDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-26) (A-23) (O-27) (AF-35) (O-27) (AF-35) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-31) (AF-32) (AF-33) (AF-33) (AF-33) (AF-36) (AF-37) (AF-36) (AF-37) (AF-37) (AF-36) (AF-37) (AF-36) (AF-37) (AF-36)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PY VP4 ZD9 FB8 MP4 3V8 TA VP5 VP5 VQ5 5) W, K XT2 CX HV YV
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA VIETNAM	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (AF-36) (A-26) (A-23) (O-28) (O-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-31) (AF-32) (AF-33) (AF-33) (AF-31) (AF-32) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-34) (AF-35) (AF-35) (AF-36) (AF-37) (AF-36) (AF-37) (AF-36) (AF-37) (AF-36)	KS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD6 VR5 VR5 II PY VP4 ZD9 FB8 MP4 ZD9 FB8 MP4 ZD9 FB8 MP4 ZVP5 VP5 VP5 VP5 VP5 VQ5 S) W, K XT2 CX HV YV 3W8
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA VIETNAM VIRGIN ISLANDS	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (A-30) (AF-36) (A-23) (O-28) (O-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-31) (AF-32) (AF-33) (AF-33) (AF-31) (AF-33) (AF-31) (AF-32) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-31) (AF-32) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33)	XS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PYØ VP4 ZD9 FB8 MP4 3V8 TA VP5 VQ5 S) W, K XT2 CX HV YV 3W8 KV4
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA VIETNAM	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (A-30) (AF-36) (A-23) (O-28) (O-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-31) (AF-32) (AF-33) (AF-33) (AF-31) (AF-33) (AF-31) (AF-32) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-31) (AF-32) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33) (AF-33)	XS4 ZS7 SL, SM HB YK 5H3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PYØ VP4 ZD9 FB8 MP4 3V8 TA VP5 VQ5 S) W, K XT2 CX HV YV 3W8 KV4
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA VIETNAM VIRGIN ISLANDS VOLCANO IS.	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (A-26) (A-26) (A-23) (O-27) (AF-35) (C-27) (AF-35) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-37)	I.A KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 I1 PY PY PY ZD9 FB8 MP4 3V8 TA VP5 VQ5 S) W, K XT2 CX HV YV 3W8 KV4 KG6I KG6I
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA VIETNAM VIRGIN ISLANDS VOLCANO IS. WAKE ISLAND	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-36) (A-23) (O-30) (A-26) (A-23) (O-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-37)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 I1 PY PY PY YP4 ZD9 FB8 MP4 ZVP5 VP5 VV5 XT2 CX HV YV SW8 KV4 KG6I KW6 K
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA VIETNAM VIRGIN ISLANDS VOLCANO IS. WAKE ISLAND WALES	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-36) (A-26) (A-26) (A-23) (O-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-31) (AF-32) (AF-33) (AF-31) (AF-35) (AF-35) (AF-36) (AF-37) (AF-36) (AF-37) (AF-37) (AF-38) (AF-37) (AF-38) (AF-37) (AF-38) (AF-37) (AF-38) (AF-37) (AF-38) (AF-37) (AF-36) (AF-37) (AF-36) (AF-37) (AF-37) (AF-38) (AF-37) (AF-38) (AF-37) (AF-38) (AF-38) (AF-37) (AF-38)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 I1 PY PY VP4 ZD9 FB8 MP4 ZD9 FB8 MP4 ZVP5 VQ5 VQ5 S) W, K XT2 CX HV YV SW8 KV4 KG6I KW6 GW
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA VIETNAM VIRGIN ISLANDS VOLCÂNO IS. WAKE ISLAND WALES WALLIS & FUTUNA ISLANDS	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-36) (A-26) (A-23) (O-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-31) (AF-32) (SA-13) (AF-35) (SA-13) (SA-9) (AF-35) (SA-9) (AF-36) (SA-13) (C-14) (C-14) (C-14) (C-14) (C-14) (C-14) (C-14)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 I1 PY
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SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA VIETNAM VIRGIN ISLANDS VOLCANO IS. WAKE ISLAND WALES WALLIS & FUTUNA ISLANDS YEMEN YUGOSLAVIA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-27) (AF-35) (O-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-35) (SA-13) (SA-13) (SA-13) (SA-13) (SA-9) (AF-35) (SA-13) (SA-13) (C-15) (SA-13) (C-15) (C-15)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PY
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA VIETNAM VIRGIN ISLANDS VOLCANO IS. WAKE ISLAND WALES WALLIS & FUTUNA ISLANDS YEMEN YUGOSLAVIA	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-27) (AF-35) (O-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-35) (SA-13) (SA-13) (SA-13) (SA-13) (SA-9) (AF-35) (SA-13) (SA-13) (C-15) (SA-13) (C-15) (C-15)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PY
SURINAM (Netherlands Guiana) SVALBARD SWAN ISLAND SWAZILAND SWEDEN SWITZERLAND SYRIA TANGANYIKA TASMANIA TCHAD REPUBLIC THAILAND TIBET TIMOR, Portuguese TINIAN ISLAND TOGO TONGA (Friendly) ISLANDS TRIESTE TRINDADE & MARTIM VAZ IS. TRINIDAD & TOBAGO TRISTAN da CUNHA & GOUGH ISLANDS TROMELIN ISLAND TRUCIAL OMAN TUNISIA TURKEY TURKS & CAICOS ISLANDS UGANDA UNITED STATES of AMERICA UPPER VOLTA, Rep. of URUGUAY VATICAN CITY VENEZUELA VIETNAM VIRGIN ISLANDS VOLCANO IS. WAKE ISLAND WALES WALLIS & FUTUNA ISLANDS YEMEN	(SA-9) (E-40) (NA-7) (AF-38) (E-14) (E-14) (A-20) (AF-37) (O-30) (AF-36) (A-23) (O-27) (AF-35) (O-27) (AF-35) (C-32) (E-15) (SA-11) (SA-9) (AF-39) (AF-39) (AF-39) (AF-39) (AF-39) (AF-31) (AF-35) (SA-13) (SA-13) (SA-13) (SA-13) (SA-9) (AF-35) (SA-13) (SA-13) (C-15) (SA-13) (C-15) (C-15)	KS4 ZS7 SL, SM HB YK SH3 VK7 TT8 HS AC4 CR10 KG6T FD8 VR5 II PY

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- If KolNI can do it, so can you.
- Absolutely no guying needed.
- Radials not required
- Only a few square inches of space needed.
- Four metal mounting straps furnished.
- Special B & W loading coil furnished.
- Every vertical is complete, ready for use.
- Mount it at any convenient height.
- No relays, traps, or gadgets used.
- Accepted design in use for many years.
- Many thousands in use the world over.
- Simple assembly, quick installation.
- Withstands 75 mph windstorms.
- Non-corrosive aluminum used exclusively.
- Omnidirectional radiation.
- Multi-band, V80 works 80, 40, 20, 15, 10, 6.
- Ideal for novices, but will handle a Kw.
- Will work with any receiver and xmitter.
- Overall height 23 feet.
- Uses one 52 ohm coax line.
- An effective modern antenna, with amazing performance. Your best bet for a lifetime antenna at an economical price. ONLY \$16.95. GOTHAM



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IS K6INI THE WORLD'S CHAMPION DX OPERATOR?

Judge for yourself! Read his letter and count the DX he has worked—with only 65 watts and a \$16.95 Gotham V-80 Vertical Antenna.

> 2405 Bowditch, Berkeley 4, California January 31, 1959

Gentlemen:

I just thought I would drop you a line and let you know how pleased I am with your V-80 vertical antenna. I have been using it for almost two years now, and am positively amazed at its performance with my QRP 65 watts input! Let me show you what mean:

I have worked over 100 countries and have received very fine reports from many DX stations, including 599 reports from every continent except Europe (589)! I have also worked enough stations for my WAC, WAS, WAJAD and ADXC awards, and I am in the process of working for several other awards. And all this with your GOTHAM V-80 vertical antennal

Frankly, I fail to see how anyone could ask for better performance with such low power, limited space and a limited budget. In my opinion, the V-80 beats them all in its class.

I am enclosing a list of DX countries I have worked to give you an idea of what I have been talking about.

Wishing you the best for 1959, I am Sincerely yours,

Thomas G. Gabbert, K61N1 (Ex-T12TG)

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NEW ORLEANS, LA.	234	219	151	237	219	223	128	190	214	246	115	124	165	207	92	127	98	199	271	157	158	92	205	298	188	169	205		237	244	235	93	222	179	114	97	114	235	251
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MILWAUKEE, WIS.	345	355	109	278	274	316							69	282	46	94		338																					
MIAMI, FLORIDA																		158																			109		_
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JACKSONVILLE, FLA.		125		1	191										98			157		126		87			156											90		205	222
INDIANAPOLIS, IND.	347	5	119	263	243	293	90	151	245	326	47	84	105	224	57	101	34		340	82	43	67	348	342	157	132	00	17	269	294	273	64	199	68	84	73	95	280	313
HOUSTON, TEXAS	251	246	165	246	231	238	143	210	228	256	157	138	187	222	98	136		220	273	184	208	96	227	290	207	186	231	270	244	253	246	100	235	207	123	101	120	245	258
HELENA, MONTANA	310	312	273	293	290	300	319	293	293	308	325	325	297	291	345		327	298	314	306	315	19	302	318	290	283	307	321	294	301	296	0	295	303	359	39	96	298	307
EL PASO, TEXAS	271	270	198	262	252	260	189	242	252	271	266	189	231	248		162	285	250	282	236	260	100	256	291	239	227	261	283	262	268	263	108	257	248	152	109	136	263	274
DETROIT, MICH.	7	17	104	274	261	345	79	80	310	350	45	74	81		53	92	34	41	355	99	41	62	26	353	66	105	24	22	286	318	294	59	310	53	92	89	000	308	335
DES MOINES, IOWA	320	328	133	275	258	293	83	268	275	311	15	74		268	42	105	9	290	323	15	352	09	301	329	253	184	318	347	280	295	283	55	281	319	80	70	97	287	306
реилев, соговаро	297	299	205	275	269	282	187	266	272	295	319		262	268	00	141	325	276	304	278	300	57	282	310	261	242	290	313	278	286	279	40	276	280	98	75	116	281	293
DALLAS, TEXAS	269	268	167	254	241	251	140	221	240																												118	256	270
COLUMBIA, S. C.	98	84	124	226	192	174	103	144	176		80	9.																- 1											
CLEVELAND, OHIO					237			93		356															l												89	307	339
CHICAGO, ILL.	343	356	114	273	264	309	81											•																				- 1	
снехеиие, муо.	301	304	209	278	273		l i	272																															
CHARLESTON, W. VA.																		[94		
BUFFALO, N. Y.	24	31	97	2			l																													1			
SOSTON, MASS.	47		92																																		81		
BISMARCK, N. D.		326																										- 1									87		
BIRMINGHAM, ALA.	264																																						
ATLANTA, GA.		82	132	236	208	208	108	161	197	268	81	103	134	188	77	112	64	166	327	120	97	81	166	337	162	145	140	20	233	249	233	80	210	134	66	98	103	233	267
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		ALA	. D.	S.	۲.	W. V	WYO.		OHIO		AS	ORAD(IOWA	ЭН.	AS	MONTANA	TEXAS	S, IND	E, FLA		ARK.	, CAL	KY.	DA	WIS.	MINN.	TENN.	S, LA	Υ.		A, PA.	ZONA	PA.	0.	>-]	اه	Z.
	A, GA	SHAM,	CK, N	I, MASS.	0, N.	STON,	NE, W			SIA, S.	, TEX.	COL	MOINES,	, MIC	D, TEXAS	MON	N, TE	\POL!	MAILL	CITY	ROCK,	ANGELES,	LLE,	FLORIDA	KEE,	POLIS	LLE, T	ORLEANS,	YORK, N.	K, VA.	ELPHI	K, AR	IRGH,	LOUIS, MO.	LAKE CITY,	FRANCISCO,	WA.	GTON	GTON
	ATLANTA,	BIRMINGHAM,	BISMARCK,	BOSTON,	BUFFALO,	CHARLESTON,	CHEYENNE,	CHICAGO,	CLEVELAND,	COLUMBIA,	DALLAS, TEXAS	DENVER, COLORADO	S MO	DETROIT, MICH.	PASO,	HELENA,	HOUSTON,	INDIANAPOLIS,	JACKSONVILLE,	KANSAS CITY,	LITTLE ROCK,	LOS AN	LOUISVILLE,	MIAMI,	MILWAUKEE,	MINNEAPOLIS,	NASHVILLE,	NEW OR	NEW YO	NORFOLK,	PHILADELPHIA,	PHOENIX, ARIZONA	PITTSBURGH,		SALT LA	SAN FR	SEATTLE,	WASHINGTON,	WILMINGTON,
	AT	8	BI	BO	BU	끐	CF	CH	T C	00	DA	DE	DES	DE	E	H	H	2	JA	KA	17	10	07	M	M	M	Z	N	N N	N	PH	PH	PI	ST.	SA	SA	SE	W	*

The above table shows the great circle bearing in degrees, of various metropolitan areas in the United States in relationship to each other. This table should be used from left to right only. To find the great circle bearing between any two of the cities shown, start at the left and follow the horizontal line to the right until you come to the column directly under the name of the city that you desire to beam a radie

this star, to calibrate a directional radio beam, look for the stars on the outside edge of the cup of the big dipper. In the by the U. S. Coast and Geodetic Survey. Copyright



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WORLD TIME CONVERSION CHART IN HOURS

lceland. Canary Islands.	IIEM	Night	1AM	2AM	3AM	4AM,	5AM-	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3 P.M	4PM	5 P.M	6PM	7PM	8PM	9PM	10PM
Azores.	10PM	11 P.M	Mid	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	DAM	10AM	11AM	Noon	1PM	ZPM	3 P.M	4PM	5PM	6 P.M	7PM	8 P.M	9 P.M
Greenland, Rio de Janeiro, Brazil,	9PM	10PM	11 P.M	Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1 P.M	2PM	3 P M	4PM	5 P.M	6PM	7PM	8PM
Atlantic Standard Time, Argentina, Nova Scotia.	8PM	9PM	10PM	PM	Might	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PIM	3P.M	4PM	5PM	6PM	7PM
Eastern Standard Time. Montreal, New York, Peru.	7PM	8FM	9PM	10PM	11 P.M	Mid	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3 P.M	4PM	5PM	6PM
Central Standard Time. Chicago, Costa Rica,	6 P.M	7PM	BPM	9PM	10PM	II P M	Mid	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5 P.M
Mountain Standard Time. Calgary, Denver, Phoenix.	5PM	6PM	7PM	8PM	9PM	10PM	IPM	Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	BAM	10AM	11AM	Noon	1PM	2PM	3PM	4PM
Pacific Standard Time. Los Angeles Seattle.	4PM	5PM	6 P.M	7PM	8PM	9PM	MAO	PM	Might	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2 P.M	3PM
Eastern Alaska. Dawson, Juneau.	3 P M	4PM	5PM	6PM	7PM	8PM	9P.M	OPM	PM	Mid	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Nogn	1PM	ZPIM
Hawaiian Islands. Midway Islands.	SPM	3 P.M	4PM	5 P.M	6 P.M	7PM	8PM	Mde	OPM	PM	Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM
Nome, Alaska. Samoa Islands.	1PM	2PM	3PM	4PM	5PM	8PM	7PM	ВРМ	9 P.M.	0 P IM	F	Mid	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	0AM	11AM	Noon
International Date Line, Fiji Islands,	Noan	1PM	2PM	3 P M	4PM	5PM	6PM	7PM	8PM	9PM	0 P M	1 P M	Mid	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM1	OAM	1AM
New Caledonia. New Zealand.	1AM	Noon	1PM	2PM	3P.M	4PM	5PM	SPM	7PM	8 P.M	9P.M.1	0 P.M.	PM	Mid	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM1	0AM
Eastern Australia. Melbourne, Sydney	0AM1	1AM	Noon	1PM	2PM	3P.M	4PM	S P M	6PM	7PM	8PM	M d B	0 P M 1	PM	Might	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM1
Central Australia. Tokyo, Japan.	DAM 1	0AM1	1AM	Noon	1PM	2PM	3 P M	4PM	5PM	6PM	7PM	8PM	9 P M	0PM	1PM	Mid	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM
Philippine Islands Perth, Australia.	8AM	9AM	0AM1	1AM	Noon	1PM	2PM	3PM	4 P.M	5PM	6 P M	7PM	8PM	9 P.M	0PM	PM	Might	1AM	2AM	3AM	4AM	5AM	6AM	7AM
French Indo China Siam, Sumatra.	7AM	8AM	9AM1	0AM1	1AM	Noon	1PM	2PM	3P.M	4PM	5P M	6P.M	7PM	8P.M	9PIM	0PM	1 P.M	Night	1AM	2AM	3AM	4AM	5AM	6AM
Calcutta, Novosi- birsk Russia, Tibet	6AM	7AM	8AM	9AM1	0AM1	1AM	Noon	1PM	2PM	3P.M	4PM	5PM	6PM	7PM	8PM	9 P.M	0PM	IBM	Mid	1AM	2AM	3AM	4AM	5AM
Central Russia, Bombay, India.	5AM	6AM	7AM	8AM	9AM	0AM	1AM	Nogn	1PM	2PM	3 P.M	4PM	5PM	6 P M	7PM	8PM	9P.M	OPM	1 P.M	Might	1AM	2AM	3AM	4AM
Mauritius, Persia, Lonsia, Lonsial noinue Hermion Island.	4AM	5AM	6AM	7AM	8AM	9AM1	0AM	1AM	Noon	1 P.M	2PM	3P.M	4PM	5PM	6PM	7PM	8PM	9PM	OPMI	PM	Might	1AM	2AM	3AM
Arabia, Armenia, Ethiopia, Madagas car.	3AM	4AM	5AM	6AM	7AM	8AM	9AM1	0AM1	1AM	Noon	1PM	2PIM	3 P.M	4 P.M	5 P.M	6 P M	7P.M	MAR	9 P.M	OFM	PM	Mid	1AM	2AM
Eastern Europe. Athens, Cape Town Cairo, Moscow	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM1	0AM	1AM	Noon	1PM	2PM	3 P M	4 P.M	5 P M	6 P.M	7PM	8 P M	9 P.M.1	10FM	11PM	Night	1AM
Central Europe. Ber- lin, Geneva, Stock- holm, Vienna.	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM 1	10AM1	11AM	Noon	1PM	2PM	3P.M	4PM	5PM	6 PIM	7PM	8PM	8 B B	10PM1	11 P.M	Might
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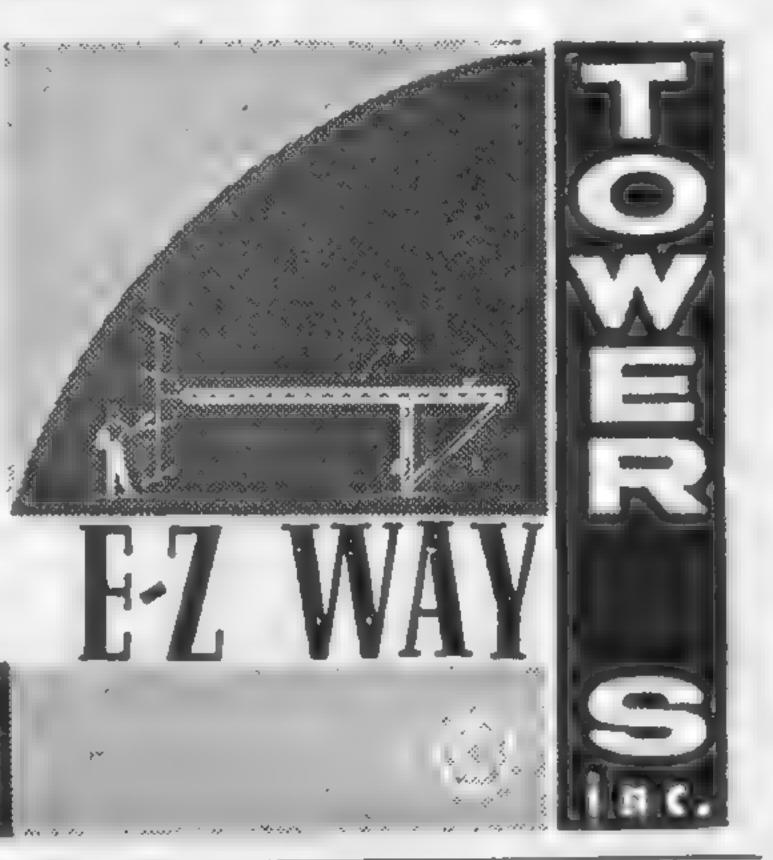
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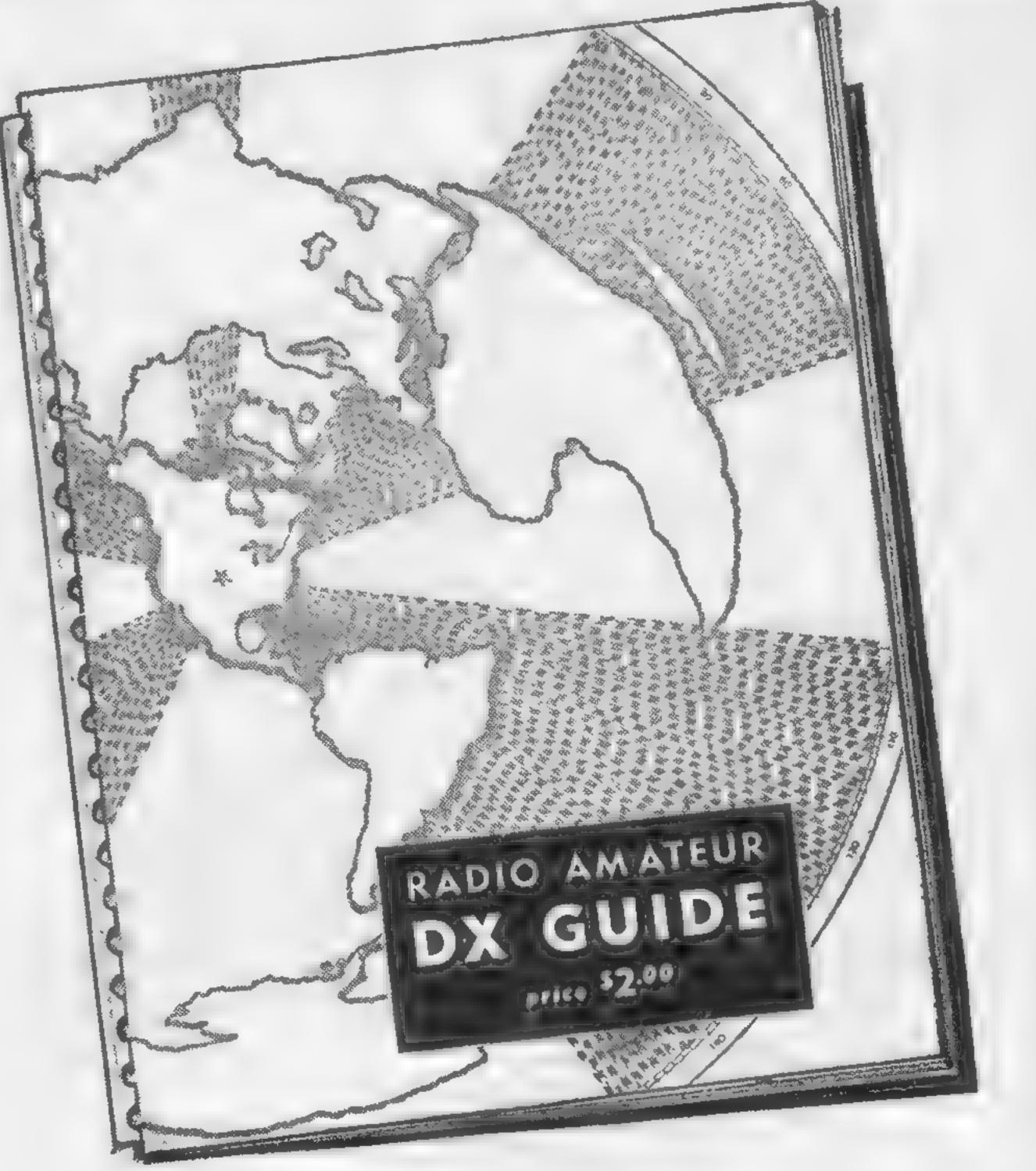
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MAGAL ,OYNOT	324	323	314	335	329	312	323	327	327	317	312	319	326	312	307	318	324	326	319	320	306	324	327	323	319	321	333	331	332	309	329	321	308	303	301	331	329
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допто, есимбоя	170	165	151	191	179	175	167	175	175	149	142	158	173	135	138	149	168	174	156	157	124	168	176	166	166	158	187	184	185	130	178	162	135	123	128	182	181
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LIMA, PERU	170	167	154	187	178	174	167	174	175	154	147	160	173	142	142	154	169	173	159	160	132	169	175	167	167	161	184	181	182	138	176	164	141	130	133	180	1/9
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BERN, SWITZERLAND	48	47	45	56	23	41	49	52	49	43	41	47	51	39	39	43	49	48	45	45	34	49	47	200	48 48	45	54	51	53	37	52	47	38	32	33	52	20
BOMBAY, INDIA	26	23	7	36	29	78	21	27	29	12	2	15	25	-	355	15	23	30	14	17	347	23	33	20	23	21	34	33	33	354	29	19	355	343	345	32	32
BOGOTA, COLOMBIA	160	155	143	186	172	135	158	167	166	138	133	149	166	125	130	137	160	163	146	147	911	160	163	158	157	146	180	176	178	121	170	153	127	115	120	175	7/1
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	LANTA	BIRMINGHAM,	BISMARCK,	BOSTON,	BUFFALO,	CHARLENTON, CHIFENNE, W	CHICAGO,	CLEVELAND,	COLUMBIA,	DALLAS,	NVER	S MO	DETROIT,	PASO,	HELENA,	HOUSTON,	INDIANAPOLIS,	JACKSONVILLE	KANSAS	ITTLE	OS AN	LOUISVILLE,	MIAMI,	MILWAUKEE, W	NASHVILLE	NEW ORLEANS	NEW YORK,	NORFOLK,	PHILADELPHIA,	PHOENIX,	PITTSBURGH,	2	SALT LA	N FR	SEATTLE,	WASHINGTON,	LIVITA
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The above table shows the great circle bearing in degrees, of various metropolitan areas in the United States in relationship to large cities throughout the world. This table should be used from left to right only. To find the great circle bearing between any two of the cities shown, start at the left and follow the hortzontal line to the right until you come to the column directly under the name of the city that you desire

to beam a radio signal to. For all practical purposes in the United States, Polaris (the North Star), is due north. To find this star, to calibrate a directional radio beam, look for the first star on a straight line with the two outer stars on the outside edge of the cup of the big dipper. This table was compiled from information furnished by the U. S. Coast and Geodetic Survey. Copyright 1947, Radio Amateur Call Book, Inc

Federal Communications Commission Examination Points

Examinations for commercial and amateur radio operator licenses are conducted at the following F.C.C. field offices on the days designated by the Engineer in Charge of each office. Specific dates should be obtained from the Engineer in Charge.

BadioDistrict

Address of the Engineer in charge

1—BOSTON 9, MASSACHUSETTS

2—NEW YORK 14, NEW YORK
748 Federal Building
641 Washington Street

3—PHILADELPHIA 6, PENNSYLVANIA 1005 New U. S. Customhouse

4—BALTIMORE 2, MARYLAND
415 U. S. Custom House
Gay and Water Streets

5-NORFOLK 10, VIRGINIA 402 Federal Building

6—ATLANTA 3, GEORGIA 718 Atlanta National Bldg., 50 Whitehall St., S.W.

6S—SAVANNAH, GEORGIA (P. O. 77)
214 Post Office Building

7—MIAMI 1, FLORIDA 312 Federal Building

7T-TAMPA 6, FLORIDA Rm. 201-221 N. Howard Ave.

8—NEW ORLEANS 12, LOUISIANA 608 Federal Office Building 600 South Street

8M—MOBILE 10, ALABAMA
419 U. S. Court and Customs House

9—HOUSTON 2, TEXAS

New Federal Office Building

515 Rusk—Room 5636

9B—BEAUMONT, TEXAS (P. O. Box 1527)
301 Post Office Building
300 Willow Street

10—DALLAS 2, TEXAS
401 States General Life Insurance Bidg.

708 Jackson Street

11—LOS ANGELES 14, CALIFORNIA

Mez 50, 849 South Broadway

11SD—SAN DIEGO 1, CALIFORNIA
Fox Theater Building
1245 Seventh Avenue

11SP-SAN PEDRO, CALIFORNIA 356 West Fifth Street

12—SAN FRANCISCO 26, CALIFORNIA 323-A Customhouse 555 Battery Street

13—PORTLAND 5, OREGON 201 U. S. Court House 620 S. W. Main Street

14—SEATTLE 4, WASHINGTON 802 Federal Office Building 1st Avenue and Marion

15—DENVER 2, COLORADO
521 New Customhouse
19th between California & Stout Streets

16—ST. PAUL 2, MINNESOTA 208 Federal Courts Buliding 6th & Market Streets

17—KANSAS CITY 6, MISSOURI 3100 Federal Office Building 911 Walnut Street

18—CHICAGO 4, ILLINOIS 826 U. S. Courthouse 219 South Clark Street

19-DETROIT 26, MICHIGAN 1029 Federal Building

20—BUFFALO 3, NEW YORK
328 Post Office Building
Ellicott and Swan Streets

21-HONOLULU 13, HAWAII 502 Federal Bidg. P. O. Box 1021

22—SAN JUAN 13, PUERTO RICO 322-323 Federal Building Post Office Box 2987

23—ANCHORAGE, ALASKA Room 55, U. S. Post Office Bldg.

23J—JUNEAU, ALASKA 6 Shattuck Building

24—WASHINGTON 25, D. C. 718 Jackson Pl., N. W.



HARVEY's line of RCA tubes is so complete, that HARVEY can fill virtually any requirement...right from stock. This is important to amateurs who depend on tubes for continued operation of their rigs.

HARVEY also carries complete 'on-hand' stocks of transmitters, receivers, converters, and other ham equipment...ready for 'off-the-shelf' delivery to any part of the world.

Write, Wire, or Phone for Prompt Harvey Service



POSTAL INFORMATION

Below are postal rates for QSL cards, first class letters and air mail letters to United States Possessions and foreign countries. First class rates are the rate for the first ounce. If the rate indicated is 11¢, add 7¢ for each additional ounce or fraction; if the rate indicated is 4¢, add 4¢ for each additional ounce or fraction.

Air mail rates are the rate for each half ounce, except where indicated.

International reply coupons of United States issue may be purchased at United States post offices for 15 cents each. Each coupon is exchangeable at a post office in any country for a stamp or stamps representing the international postage on a single rate surface letter. The column marked "RP" shows the number of international reply coupons required to prepay an air mail letter of the first weight unit from the countries indicated to the United States.

COUNTRY ADEN AFGHANISTAN ALAND ISLANDS ALASKA ALBANIA ALGERIA ANDORRA ANGOLA ARGENTINA ASCENSION ISLAND AUSTRALIA AUSTRIA AZORES	cards\$.070703070707070707	First class \$.11 .11 .04 .11 .11 .11 .11 .11 .11 .11	Air mail \$.25 .25 .15 .15 .15 .25 .15 .15	RP 532 222343322	COUNTRY GABON REPUBLIC GAMBIA GERMANY GHANA GIBRALTAR GILBERT AND ELLICE ISLANDS GOA GREECE GREENLAND GUADALOUPE GUATEMALA GUINEA, REPUBLIC OF		First class .11 .11 .11 .11 .11 .11 .11 .11 .11 .	Air mail .25 .25 .15 .25 .15 .15 .13 .13	2488882228	COUNTRY PĀKISTĀN PĀNĀMĀ PĀPUĀ TERRITORY PĀRĀGUĀY PERU PHILIPPINE ISLĀNDS PITCĀIRN ISLĀND POLĀND PORTUGĀL PORTUGUESE GUINEĀ REUNION ISLĀND	07 07 07 07 07 07 07	class .11 .11 .11 .11 .11 .11 .11 .11 .11 .	Air mail .25 .13 .25 .15 .25 .15 .25	44 5 5 3 2 2 2 3
BARBADOS BECHUANALAND BELGIUM BERMUDA BOLIVIA	.07	.11 .11 .11 .11 .11	.13 .15 .13 .25 .15	1 2 5	HAITI HONDURAS HONG KONG HUNGARY ICELAND IFNI INDIA		.11 .11 .11 .11	.13 .25 .15	353	RHODESIA AND NYASALAND RIO DE ORO RIO MUNI RUANDA-URUNDI RUMANIA RYUKYU ISLANDS	07	.11 .11 .11 .11	.25 .25 .25 .15 .25	3
BRITISH GUIANA		.11 .11 .11 .11 .11	.15 .25 .13 .25 .25 .25	3 4 2 1 6 7 2	INDONESIA IRAN IRAO IRELAND ISRAEL ITALY IVORY COAST		.11	.25 .25 .25 .25 .15 .25	32	SAHARA ST. HELENA ST. PIERRE AND MIQUELON SAMOA (WESTERN) SANTA CRUZ ISLAND SARAWAK SAUDI ARABIA	07 07 07 07	.11 .11 .11 .11 .11	.25 .25 .25 .25 .25	243
CADE VEDDE ICIANDO	.07	.11 .04 .11 .11	.25 .25 .07 .15 .25	2 2 2 2	JAMAICA JAPAN JORDAN KENYA & UGANDA KOREA KUWAIT	.07	.11	.25 .25 .25 .25	2 3 5	SENEGAL SEYCHELLES SIERRA LEONE SOLOMON ISLANDS SOMALI REPUBLIC SOMALILAND PROTECTORATE SOUTH-WEST AFRICA	.07	.11 .11 .11 .11 .11	.25 .25 .25 .25 .25	234
CAYMAN ISLANDS CENTRAL AFRICAN REP CEYLON CHAD CHILE	.07 UB07 .07 .07 .07	.11	.13 .25 .25 .25 .25 .25	433	LABUAN LAOS LATVIA LEBANON LEEWARD ISLANDS LIBERIA LIBYA LITHUANIA		.11 .11 .11 .11 .11	.25 .25 .25 .13 .25 .15		SPAIN SUDAN SURINAM SWEDEN SWITZERLAND SYRIA	07 07 07 07	.11 .11 .11 .11	.15 .25 .15 .15 .15	2 1 2 3
COMORO ISLANDS CONGO (BRAZZAVILLE AND LEOPOLDVILLE CORSICA COSTA RICA CUBA CYPRUS	.07	.11	.25 .25 .15 .13 .13	2 2 4	MACAO MADEIRA ISLANDS MALAGASY REP. (MADAGASCAR) MALAYA MALI		.11	.15 .25 .15 .25 .25	2 3 6	TANGANYIKA TASMANIA THAILAND TIMOR TOGO TONGA (FRIENDLY) ISLANDS	07 07 07 07	.11 .11 .11 .11	.25 .25 .25 .25	53142
DAHOMEY DENMARK DOMINICAN REPUBLIC	.07	.11	.15	2	MARTINIQUE MAURITANIA MAURITIUS MEXICO MOROCCO		.11 .11 .11 .04	.15 .25 .25 .07* .15	322	TRINIDAD AND TOBAGO_ TRISTAN DE CUNHA TUNISIA TURKEY TURKS ISLAND	07 07 07	.11 .11 .11 .11	.13 .25 .15 .15	
ECUADOR EGYPT EL SALVADOR ENGLAND ERITREA ESTONIA ETHIOPIA		.11 .11 .11 .11 .11	.15 .13 .15 .25 .25	3	NAURA ISLANDS NEPAL NETHERLANDS NETHERLANDS ANTILLES NETHERLANDS NEW GUINEA		.11	.25 .25 .15 .13	7	UNION OF SOUTH AFRICA U.S.S.R. UPPER VOLTA URUGUAY VATICAN CITY VENEZUELA	070707	.11 .11 .11	.25	5 2 2
DESTRUCT SAID TOT SAIDO	.07	.11 .11 .11 .11	.15 .15 .25 .15 .15	2 2 2 2	NEW CALEDONIA NEW GUINEA, TERRITORY OF NEW HEBRIDES NEW ZEALAND NICARAGUA		.11 .11 .11 .11	.25 .25 .25 .25	2	VIETNAM	07	.11 .11	.25 .13	
FRENCH OCEANIA FRENCH SOMALILAND	07	.11	.25	2	NIGERIA NORWAY	07		.25 .25 .15	4	ZANZIBAR	07	.11	.25	5

*Rate per ounce.

QSL cards and Aerogrammes (air letter sheets) may be sent to any country in the world by air mail for 11¢ (exception, QSL cards to Canada and Mexico, 5¢).

These rates include all revisions up to press time of this issue.

Given below are a number of Q signals whose meanings most often need to be expressed with brevity and clearness in amateur work. (Q abbreviations take the form of questions only when each is sent followed by a question mark.)

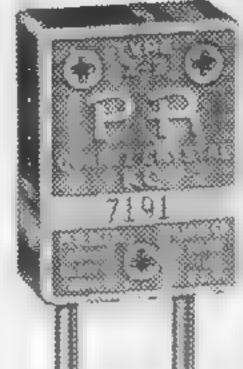
- QAV Are you calling me? I am calling.____.
- QRG Will you tell me my exact frequency in kilocycles? Your frequency is kc.
- Does my frequency vary? Your frequency varies.
- How is the tone of my transmission? The tone of your transmission is_____ (1. good; 2, variable; 3. bad).
- Are you receiving me badly? Are my signals weak? I cannot receive you. Your signals are too weak.
- QRK What is the readability of my signals (1 to 5)? The readability of your signals is____(1 to 5).
- QRL Are you busy? I am busy or busy with
- QRM Are you being interfered with? I am interfered with.
- QRN Are you troubled by atmospherics? I am being troubled by atmospherics.
- DRQ Shall I send faster? Send faster (______ words per min.).
- QRS Shall I send more slowly? Send more slowly (____w.p.m.).
- Shall I stop sending? Stop sending.
- QRU Have you anything for me? I have nothing for you.
- QRV Are you ready? I am ready.
- QRW Shall I tell.......that you are calling him? QNE Entire Net please stand by. Please tell____that I am calling him.
- QRX When will you call again? I will call you again at____hours (on____kc).
- By whom am I being called? You are being called by_____.
- QSA What is the strength of my signals (I to 5)? The strength of your signals is (1 to 5).
- Does the strength of my signals vary? The strength of your signals varies.
- QSD Is my keying correct? Are my signals distinct? Your keying is incorrect; your signals are bad.
- Shall I send____telegrams (or one) at a time? Send____telegrams at a time.
- Can you give me acknowledgment of receipt? I give you acknowledgment of receipt.
- QSM Shall I repeat the last telegram I sent you? Repeat the last telegram you sent me.
- QSO Can you communicate with.....direct (or through _____)? I can communicate with _____direct (or through ____).
- Will you relay to ___? I will relay to ___.
- Shall I send a series of VVV____? Send a series of VVV.
- QSW Will you send on____kcs? etc. I will send on kcs, etc.
- Will you listen for____(call sign) on____ kcs? I am listening for on kcs.
- Shall I change to kilocycles without changing the type of wave? Change to ____kc. without changing type of wave.

- QSZ Shall I send each word or group twice? Send each word or group twice.
- Shall I cancel nr____as if it had not been sent? Cancel nr___as if it had not been sent.
- Do you agree with my number of words? I do not agree with your number of words; I will repeat the first letter of each word and the first figure of each number.
- How many telegrams have you to send? I have____telegrams for you or for___.
- QTH What is your position (location)? My location is____(by any indication).
- What is the exact time? The time is......
 - CQ is the general call to any station. Special abbreviations adopted by ARRL:
- General call preceding a message addressed to all amateurs and ARRL Members. This is in effect "CQ ARRL."
- QRRR Official ARRL "land SOS." A distress call for emergency use only by station in an emergency situation.

A.R.R.L.-NET "QN" SIGNALS

- QNA Answer in pre-arranged order.
- QNB Act as relay between and and
- QNC All Net stations copy.
- QND Net is directed.
- QNF Net is free.
- QNG Take over as Net Control Station.
- QNH Your Net frequency is high.
- QNI Report into Net or I report into Net.
- QNJ Can you copy me (or_____)?
- QNK Transmit message(s) (for_____) to_____,
- QNL Your Net frequency is low.
- QNM You are QRMing___; please stand by.
- QNN Net Control Station is ____(on ___kc.).
- QNO Going out of Net.
- QNP Unable to copy you (or_____)?
- QNQ Send you information "QNC" or May I transmit message "QNC?"
- QNR Answer.....and relay (or receive) traffic.
- QNS Following stations in Net_____.
- QNT Leaving Net temporarily (or for_____ minutes) or I request to leave Net temporarily, etc.
- QNU has traffic for you; await instructions (or QNU QNR).
- QNV Please request_____to QSV.
- QNW Through whom shall I relay message for____?
- QNX You are excused from Net or I request to be excused.
- Please shift to another frequency (or to kc.) to prevent QRMing other Net stations (or to clear trafifc with____
- QNZ Zero beat your signal with that of the Net Control Station.





Fundamental, PR Type Z-2

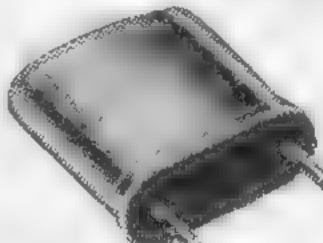
Frequency Ranges in Kcs.: 3,500 to 4,000 (80M); 7,000 to 7,425 (40M); 8,000 to 8,222 (2M); 8,334 to 9,000 (6M). Rugged. Low drift, fundamental oscillators. High activity and power output. Stands up under maximum crystal currents. Stable, long-lasting;

±500 cycles......\$2.95 Net (All Z-2 Crystals calibrated with a load of 32 mmfd.)

Third Overtone, PR Type Z-9A

Hermetically sealed; calibrated 24,000 to 24,666 and 25,000 to 27,000 Kc., ± 3 Kc.; .050" pins. \$3.95 Net

6 Meters, PR Type Z-9A



Fifth avertone; for operating directly in 6-meter band; hermetically sealed; calibrated 50 to 54 Mc., ±15 Kc.; .050" pins......\$4.95 Net

SPECIAL TYPES

Commercial Crystals available from 100 Kc. to 70 Mc. Prices on request.

Type Z-1, Aircraft Z-1, MARS & CAP 3023.5 Kc.,

Official assigned trans-.005% \$3.45 Net mitter frequencies in the range. Calibrated to .005%. 1600 to 10000 Kc.....\$3.45 Net

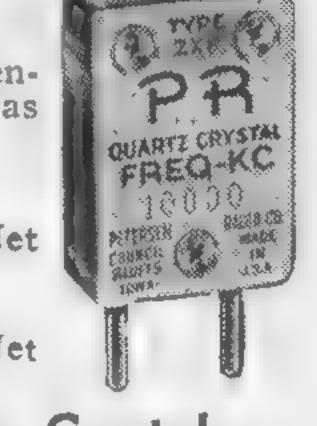
Type Z-6A, Frequency Standard To determine band-edge. To keep the VFO and receiver properly calibrated. 100 Kc.\$6.95 Net

Type 2XP

Suitable for converters, experimental, etc. Same holder dimensions as Type Z-2.

1600 to 12000 Kc. (Fund.) ±5 Kc.....\$3.45 Net

12001 to 25000 Kc. (3d Mode) ±10 Kc.....\$4.45 Net



Type Z-1, TV Marker Crystals Channels 2 through 13.....\$6.45 Net 10.7 Mc. FM, IF, .01%\$2.95 Net

VHF Type Z-9R, Aircraft

For Lear, Narco and similar equipment operating in the 121 Mc. region, requiring crystals in 30 Mc. range.



Each.....\$4.95 Net TYPE Z-9R CITIZENS BAND CLASS "D" FCC assigned frequencies in megacycles: 26.965, 26.975, 26.985, 27.005, 27.015, 27.025, 27.035, 27.055, 27.065, 27.075, 27.085, 27.105, 27.115, 27.125, 27.135, 27.155, 27.165, 27.175, 27.185, 27.205, 27.215, 27.225, 27.255; calibrated to .005%.

(Be sure to specify manufacturer and model number of equipment)

TYPE Z-9R RECEIVER CRYSTALS FOR CITIZENS BAND CLASS "D"-Specify I.F. frequency, also whether receiver oscillator is above or below transmitter frequency. Calibrated to .005%. \$2.95 Net (Be sure to specify manufacturer and model

number of equipment) TYPE Z-9R RADIO CONTROL CLASS "C" FCC assigned frequencies in megacycles: 26.995, 27.045, 27.095, 27.145, 27.195, 27.255; calibrated (Be sure to specify manufacturer and model

number of equipment) ALL PR CRYSTALS ARE UNCONDITIONALLY GUARANTEED

ORDER FROM YOUR JOBBER

PETERSEN RADIO CO., INC.

2800 W. BROADWAY COUNCIL BLUFFS, IOWA

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мігміметом, и. с.	371	512	1474	673	598	350	1540	745	541	178	1001	1537	993	623	1991	1969	1066	593	346	186	818	2294	516	598	810	1100	517	692	499	203	423	1954	442	746	9061	2479	2460	326	
WASHINGTON, D. C.	543	661	1318	393	292	253	1477	597	306	405	1185	1494	968	396	1728	1842	1220	494	647	945	892	2300	476	923	637	934	569	996	205	146	123	1983	192	712	1848	2442	2329		326
SEATTLE, WASHINGTON	2182	2082	1013	2493	2117	2132	973	1737	2026	2326	1681	1021	1467	1938	1376	490	1891	1872	2455	1506	1785	959	1943	2734	1692	1395	1975	2101	2408	2436	2380	1114	2138	1724	701	678		2329	2460
SAN FRANCISCO, CALIF.	2139	2013	1265	2699	2300	2205	196	1858	2166	2317	1483	949	1550	2091	995	807	1645	1949	2374	1506	1688	347	1986	2594	1842	1584	1963	1926	2571	2515	2523	653	2264	1744	009		678	2442	2479
SALT LAKE CITY, UTAH	1583	1466	694	1	1699	1616			7	1751	999		953		689		1200	1356	1837	925		579	1402	2089	1242	987	1393	1434	1972	1927	1925	504	1668	1162		009	701	1848	1306
ST. LOUIS, MO.	467	400	779	1038	662	465	795	262	492				273	455	1034	1236	679	231	751	238	291	1589	242	1001	327	466	254	298	875	171	811	1272	559		1162	1744	1724	712	746
PITTSBURGH, PA.	521	809	1127	483			-	410	115		1070				1590	1652	1137	330	703	781	779	2136	344	1010	446	743	472	919	317	318	259	1828		559	1668	2264	2138	192	442
PHOENIX, ARIZONA	1592	1456	1095	2300	1906	1733	663	1453	1749	gred .	887		1155	0691	346	907	1017	1499	1794	1049	1137	357	1508	1982	1464	1280	1446	1316	2145	2028	2083		1828	1272	504	653	1114	1983	1954
PHILADELPHIA, PA.	999	783	1367	271	279	365	1556	999	360		1299			443	1836	1897	1341	585	758	1038	1007	2394	582	1019	694	985	685	1089	83	222		2083	259	811	1925	2523	2380	123	423
NORFOLK, VA.	505	638	1430	471	947	311	1556	669	432	332	1196	1566	983	522	1755	1947	1204	573	546	1009	909	2355	529	797	749	1047	586	926	296		222	2028	318	171	1927	2515	2436	146	203
NEW YORK, N. Y.	748	864	1396	188	292	440	1604	713	405	605	1374	1631	1022	482	1905	1929	1420	949	838	1097	1081	2451	652	1092	733	1018	761	1171		296	83	2145	317	875	1972	2571	2408	205	499
NEW ORLEANS, LA.	424	312	1297	1359	1086	754	1131	833	924	599	443	1082	827	939	983	1646	318	712	504	089	355	1673	623	699	910	1021	469		1171	926	1089		919	598	1434	1926	2101	996	769
NASHVILLE, TENN.	214	182	1030	943	1				459		617						665	251	499	473	325	1780	154	815	478	697		469	761	586	685	1446	472	254	1393	1963	1975	569	217
MINNEAPOLIS, MINN.	907	862	384	1123	731	755	642	355	630	866	862	200	235	543	1157	912	1056	511	1191	413	708	1524	605	1511	299		269	1021	1018	1047	985	1280	743	466	987	1584	1395	934	1100
MILWAUKEE, WIS.	899	629	682	857	458	461	878	81	335	726	857	914	309	252	1279	1206	1005	243	942	443	618	1744	349	1267		299	478	910	733	749	694	1464	446	327	1242	1842	1692	637	810
MIAMI, FLORIDA	604	665	1838	1255	1181	870	1763	1188	1087	569	1111	1726	1333	1152	1643	2260	968	1024	326	1241	949	2339	919		1267	1511	815	699	1092	797	1019	1982	1010	1001	2089	2594	2734	923	298
LOUISVILLE, KY.	319	331	965	826	483	225	1033	269	311	395	726	1038	476	316	1254	1453	803	107	594	480	435	1829		919	349	909	154	623	652	529	582	1508	344	242	1402	1986	1943	476	916
LOS ANGELES, CALIF.	1936	1802	1267	2596	2198	2054	882	1745	2049	2123	1240	831	1438	1983	701	924	1374	1809	2147	1356	1480		1829	2339	1744	1524	1780	1673	2451	2355	2394	357	2136	1589	579	347	959	2300	2294
LITTLE ROCK, ARK.	456	325		1259		642			740				478	723		1315				325		1480	435	949	618	708		355			1007				1148			892	818
KANSAS CITY, MO.	929	579	618	1251	861	701	560	414	700	830	451	558	180	645	839	1023	644	453	950		325	1356	480	1241	443	413	473	089	1097	1009	1038	1049	781	238	925	1506	1506	945	186
JACKSONVILLE, FLA.	285	374	1529	1017	879	553	1493	863	770	256	806	1467	1023	831	1473	1973	821	669		950	069	2147	594	326	942	1611	499	504	838	546	758	1794	703	751	1837	2374	2455	647	346
INDIANAPOLIS, IND.	426	433	881	807	435	262	986	165	263	489	763	1000	411	240	1264	1382	865		669	453	483	1809	107	1024	243	511	251	712	646	573	585	1499	330	231					_
HOUSTON, TEXAS	701	567	1211	1605	1286	984	947	940	1114	891	225	879	821	1105	9/9	1467		865	821	644	388	1374	803	896	1005	1056	665	318	1420	1204	1341	1017	1137	679	1200	1645	1891	1220	1066
HELENA, MONTANA	1697	1602	534	2024	1640	1642	521	1248	1541	1837	1247	169	977	1455	1065		1467	1382	1973	1023	1315	924	1453	2260									1652	1236				1842	1969
EL PASO, TEXAS	1291	1152			1692	1475			1525		572			1479		1065			1473	839		701		1643		1157		983					1590					1728	- 1
DETROIT, MICH.	596	641	926	613	216	284	1125	238	90	585	666	1156	546		1479	1455	1105	240	831	645	723	1983	316	1152	252	543	470	939	482	522	443	1690	205	455	1492	2091	1938	396	623
DES MOINES, IOWA	739	0/9	909	1159	760	673	583	309	617	863	632	019		546	983	977	821	411	1023	180	478					235	525	827	1022								1467	896	883
DENVER, COLORADO	1212	1095	531	1769	1370	1256	96	920	1227	1380	663		610	1156	557	591	879	1000	1467	558	780		1038			700		1082	1631	1566	1579	586	1320	962	371	949	1021	1494	153/
DALLAS, TEXAS	721	581	066	1551	1198	935	726	803	1025	914		663	632	666	572	1247	225	763	808	451	293	1240			- 1	862		443			1299							1185	1031
COLUMBIA, S. C.	194	334	1359	791	623	302	1390	652	518		914	1380	863	585	1484	1837	891	489	256	830	644	2123	395	569	726	998					523	1781	448	603	1751	2317	2326	405	1/8
CLEVELAND, OHIO	554	618	1014	551	173	217	1199	308		518	1025							263			- 1				- 1	- 1		924			360							306	
כאוכשפס' וררי	587	578	734	851	454	400	891		308	652	803	920	309	238				165		414			269				397	833	713	669	999	1453	410			i i		597	
снехеиие, муо.	1229	1119	440	1735	1335	1246		891	1199		726					- 1		986		260	813				_	642	1032	1131	1604	1556	1556	663	1298	795		296	973	1477	1340
CHARLESTON, W. VA.	353	442	1133	622	344		1246	400	217	302	935	1256	673	284	1475	1642	984	262	553	701	642		225								365	1733	168	465	1616	2205	2132	253	220
BUFFALO, N. Y.	697	176	1106	400		344	1335	454	173						- 1			435					483	1181	458	731	627	1086	292	438	279	1906	178					292	230
BOSTON, MASS.	937	1052	1489		400	622	1735	851	551	791	1551	1769	1159	613	2072	2024	1605	807							857	1123	943	1359	188	471	271			- 1				383	_
BISMARCK, N. D.	1244	1174		1489		1133	- 1			1359	_										943	- 1						1297	- 6		_	- 1						1318	
BIRMINGHAM, ALA.	140		1174	1052	776	442	1119	578	618	334	581	1095	029	641	1152	1602	267	433	374	579	- 1		331		629						783	1456	809	400	1466	- 1		661	216
ATNAJTA		140	1244	937	269	353	1229	587	554	194	721	1212	739	596	1291	1697	701	426	285	929	456	1936	319	604	899	907	214	424	748	505	999	1592	521					543	1/0
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	AT	B	Bi	BO	BU	3	3	3	5	00	DA	DE	DE	PE	립	H	유	Z	JA	X	5	10	2	MI	N	M	Z	2	NEW	NON	조	PH	PII	ST	SA	SAN	SE	WA	

ARRL Phonetic Alphabet

- A ADAM
- **B** BAKER
- C CHARLIE
- D DAVID
- E EDWARD
- F FRANK
- G GEORGE
- H HENRY
- IDA
- J JOHN
- K KING
- L LEWIS
- M MARY
- N NANCY
- O OTTO
- P PETER
- Q QUEEN
- R ROBERT
- S SUSAN
- T THOMAS
- U UNION
- V VICTOR
- W WILLIAM
- X X-RAY
- Y YOUNG
- Z ZEBRA

ON GOOD PHONE OPERATING

- 1. Listen much . . . with care. Avoid distractions in your operating room. Tune the band well after each call.
- 2. Time your calls; monitor your own frequency. Call only when a station is free.
- 3. Make short calls, with breaks to listen. Speak clearly, at a steady, modest rate. Three short calls are better than one long one.
- 4. Use push-to-talk technique . . . speak near the mike. Watch the modulation indicator. Keep local background noise at a minimum.
- 5. Make notes. Avoid missing points for comment. Jot down topics to avoid repeats.
- 6. Talk in connected thoughts and phrases.
 Notes will help avoid mixing up subjects.
 Push-to-talk technique will keep brother amateurs from calling you a monologuist.
- 7. Speak naturally. QSOs need not be cut and dried. Make them interesting. Avoid exhibitionism. Use proper operating form to promote efficiency in communication and addrespect and prestige for your station.

Use of this standard list is recommended by ARRL. Haphazard selection of words often results in confusion. A degree of uniformity in use of phonetic words reflects favorably on your individual operating, and on the whole amateur service.

ARRL Communications Department.

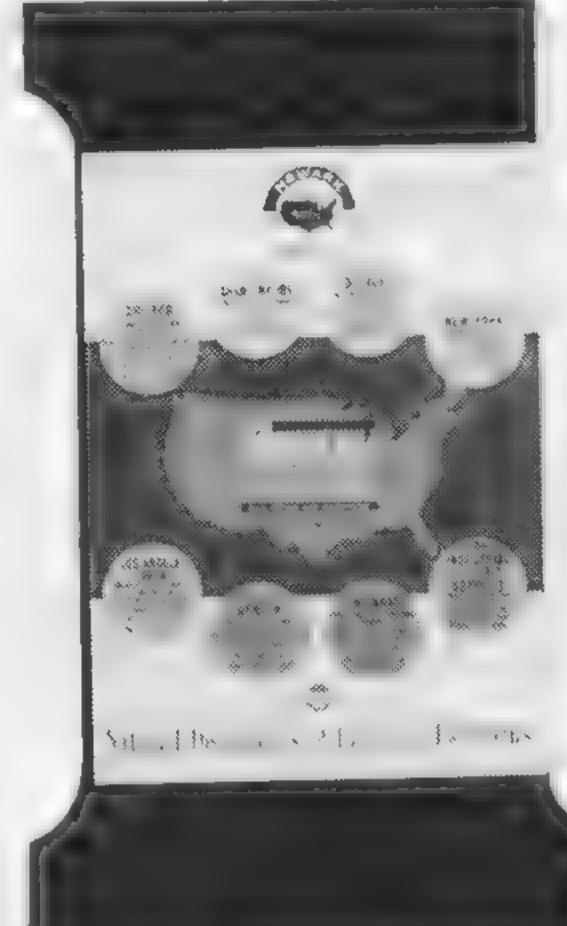


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STANDARD TIME THROUGHOUT THE WORLD

Country

Compiled by the National Bureau of Standards

Standard time for the world, like longitude, is counted from Greenwich, England, as the prime meridian. Places to the east of Greenwich have faster time than Greenwich, while places to the west have slower time. The world is divided into time zones of approximately 15° for every hour. Since Greenwich is in the 0 zone, the number of any zone, if added or substracted to the time in Greenwich, will give the corresponding time in that particular zone.

Not all countries follow the International Time Zone System, but some use the time of some principal city as a standard and others have no standard time. The different time zones of the world are numbered east and west of Greenwich. The zone number when added or substracted, as shown in the following table, from the time of the zone gives the corresponding Greenwich time. Thus zones to the east have faster time than Greenwich and are indicated as minus (—), while those to the west have slower time and are indicated as plus (+).

Zone

Number

	Zone
Country	Number
Admiralty Islands Afghanistan	—10 —4
Alaska	
Juneau, Ketchikan, Sitka Cordova	
Central part West coast, Aleutian Islands	+10
Albania†	-1
AlgeriaAmirante Islands	0 4
Amsterdam Island	- 1 4
Andaman Islands Andora†	$-6\frac{1}{2}$
Anglo-Egyptian Sudan Angola	<u>2</u>
Anguilla Island	+4
Antiqua Island	+-4
Aden†	 3
Aru Islands	 9
Ascension Island Austral (Tubuai) Islands	U
Australia	
Western Australia Northern Territory, South Australia†	-8 $-91/2$
New South Wales,† Queensland,	
Victoria*Austria†	
Azores Islands†	0
Bahama IslandsBahrein Islands	+5 -4
Balearic Islands†	0
Barbados Island†Bechuanaland	2
Belgium† Bermuda Islands†	0
Bhutan	$-5\frac{1}{2}$
Bolivia Borneo†	+4
Brazil	
Fernando Noronha Island, Isle de Trinidade	+2
Bahia, Ceara, Esperito Santo, Goyaz, Miranhao, Minas-Geraes, Para, Par-	
ana, Pernambuco, Piauhy, Rio de	
Janeiro, Rio Grande do Norte, Rio Grande do Sul, Santa Catherina, Sao	
Paulo	
Amazonas, Matto Grosso	+5 +5
British Honduras†Bulgaria	+8
Burma	—6½
Cameroons	1
CanadaBelle Isle, Labrador,† Newfoundland†	–
Anticosti Island, Cape Breton Island, Magdalen Island, New Brunswick,†	
Nova Scotia,† Prince Edward Island,	
Quebec (east of 68° W),† Sable Island Melville Peninsula (east), Ontario (east	
of 90° W.),† Quebec (west of 68 W.),† Southampton Island	
Manitoba, Ontario (west of 90° W.),	
Melville Peninsula (west), Northwest Territories (east)	
Alberta, Saskatchewan, Northwest Ter-	
ritories (middle) British Columbia, Northwest Territories	
(west)Yukon	
Arctic Islands:	
Canary Islands† Cape Verde Islands	+1 +2
Caroline Islands	
Ceylon Island† Chagos Archipelago†	5 ¹ / ₂ 5
China China	+4
Western part	5
Mid-Western part Mid-Eastern part, Hainan, Palekoi,	. — ь
Hongkong, Macao Eastern part	. —7
Christmas Island	<u>-7</u>
Colombia	+5
Western part	. —1
Cook Islands	
Costa Rica	
Curacao Island	+41/2
Cyprus Island Czechoslovakia	—2 —1
Dahomey	. 0
Denmark†	. —1
Dominican Republic†	

Country	Number
Ecuador	+5
Egypt†	2
Eire†Ellice Islands	12
El Salvador	-12
England†	ő
Equatorial Africa, French	—i
Eritrea	-3
Ethiopia	-3
Falkland Islands†	14
Fanning Island	+11
Faroe Islands	0
Finland†	-2
France†	U
Gambia	0
Germany†	-1
Gibraltar†	0
Gilbert Islands	-12
Gold Coast†	2
Scoresby Sound	$+\bar{2}$
Angmagssalik, Disko Island, Western	
Coast	+3
Interior‡	1.4
Grenada Island	14
Guadeloupe Island Guam Island	10
Guatemala	+6
Guiana, British, Dutch, French	+31/2
Guinea	
French, Spanish	1 9
Portuguese	+1
Haiti	+5
Hawaiian Islands	+10
Hebrides Islands	1.6
Honduras	+ b
Hungary†	1.1
Iceland†	+ 1 516
Indo-China†	—8 ⁷²
Iran	-31/2
Iraq†	-3
Ireland, Northern†	
Isle of Man	0
Isle of Pines	+3
	1.5
Jamaica	+3
Japani	_8
Kenya	_3
Kenya Kodiak Island	
Korea	,
Labrador	
Laccadive Islands	1 - 27
Latvia*	2
Liberia	
Libya*	
LiechtensteinLithuania*	_2
Lord Howe Island	101/2
Luxembourg*	7 7
Madagascar Island	_3
Madeira Islands	0
Malay States	$7\frac{1}{2}$
Maldive Islands Malta Island	1
Marshall Islands	-12
Martinique Island	+4
Mauritius Island	+4
Mexico*	
Aguascalientes, Campeche, Chiapas, Chihuahua, Coahuila, Durango, Gu-	
anajuato, Guerrero, Jalisco, Mexico,	
Michoacan, Morelos, Nuevo Leon,	
Oaxaca, Puebla, Queretaro, Quintana	
Roo, San Luis Potosi, Tabasco, Ta-	
maulipas, Tlaxcala, Yucatan Baja California (south of 28° N.), Na-	-
yarit, Sinaloa, Sonora	
Baja California (north of 28° N.)	
Midway Island	+11
Monaco§	0
Morocco§	. 0
Mozambique	
Nepal	
New Caledonia Islands	11
Newfoundlands	
New Guinea	
Western part (Dutch)	— 9
Eastern part (British)	
New Hebrides Islands	
New Zealand§ Nicaragua	
Nigeria	
Norfolk Island	111/2
Northern Irelands	0

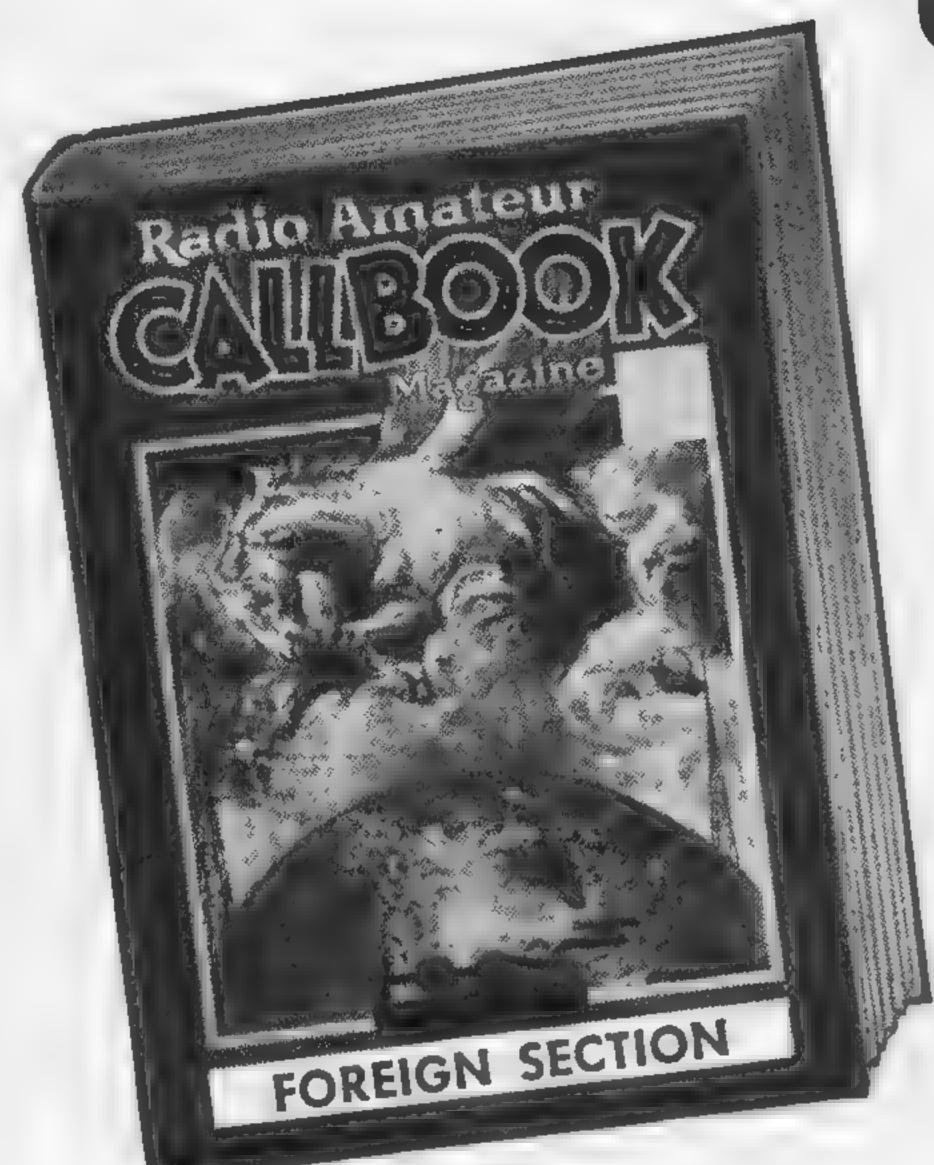
Country	Zone Number
Norway§ Nyasaland	— <u>1</u>
Orkney Islands	0
Pakistan	$-5\frac{1}{2}$
Palestine†Panama	+5
Peru†	+5
Philippine IslandsPoland	8
Western partEastern part	
Portugal†Puerto Rico	+4
Reunion Island	4
Rhodesia Northern	. —2
Rio de Oro	+1
Rumania	
Samoa IslandsSan Marino†	-1
Sarawak Saudi Arabia‡	
ScotlandSenegal†	
Seychelles Islands	
Sierra LeoneSociety Islands	. 0 +10
Solomon Islands Somaliland	
Southwest Africa	-
SpaintSpitzbergent	
St. Croix IslandSt. Helena Island	. 0
St. Lawrence Island	+4
St. Matthew Island St. Miguel Island	_
St. Pierre Island†St. Thomas Island	$+4 \\ +4$
St. Vincent IslandSudan (French West Africa)	+4
Eastern part Western part	. 0
Sumatra Island Sweden	7
Switzerland† Syria†	
	. —3
TanganyikaTangierTasmania Island†	0
Timor Island Tobago Island	-9
TogolandTonga (Friendly) Islands	. 0
Transjordan* Trinidad Island	
TunisiaTurkey†	. <u></u> 1
Turks Island	+5
UgandaUnion of South Africa†	3 2
United States of America† Eastern	+5
CentralMountain	+6 +7
PacificAlaska	+8 +10
Uruguay† U. S. S. R.†	+3
Estonia, Karelo-Finnish, Latvia, Lithuania, Moldavia, Russia, Ukraine,	
White Russia	2
Armenia, Azerbaijan, Georgia Kazak, Tadzhik, Turkmen, Uzbek	4
Kirghiz, W. Siberian Region Approximately 82½° to 97½°	<u> </u>
Buryat-Mongol, E. Siberian Region Approximately 112½° to 127½°	. —8
Kuril Islands, Sakhalin Approximately 142½° to 157½°	. —10
Approximately 157½° to 172½°	. —11
Vatican City	1
Venezuela Virgin Islands	7 -
Wake Island	12 0
Wrangell Island	12
Yap Island	
Zanzibar Island	_

^{*}See time Zone Chart of the World No. 5192, published by Hydrographic Office, Navy.

[†]Fast time in use during part of the year.

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Great Circle Chart of the World Centered on THE UNITED STATES



To find the great circle bearing to any point in the world from the center of the United States, draw a straight line from the star and note the reading in degrees on the outer scale. The bar scale at the bottom of the chart can be used to determine the distance in statute miles. For bearings to the nearest degree reference is invited to the table on the opposite Page. The outlines of this chart were prepared by the U.S. Coast and Geodetic Survey.

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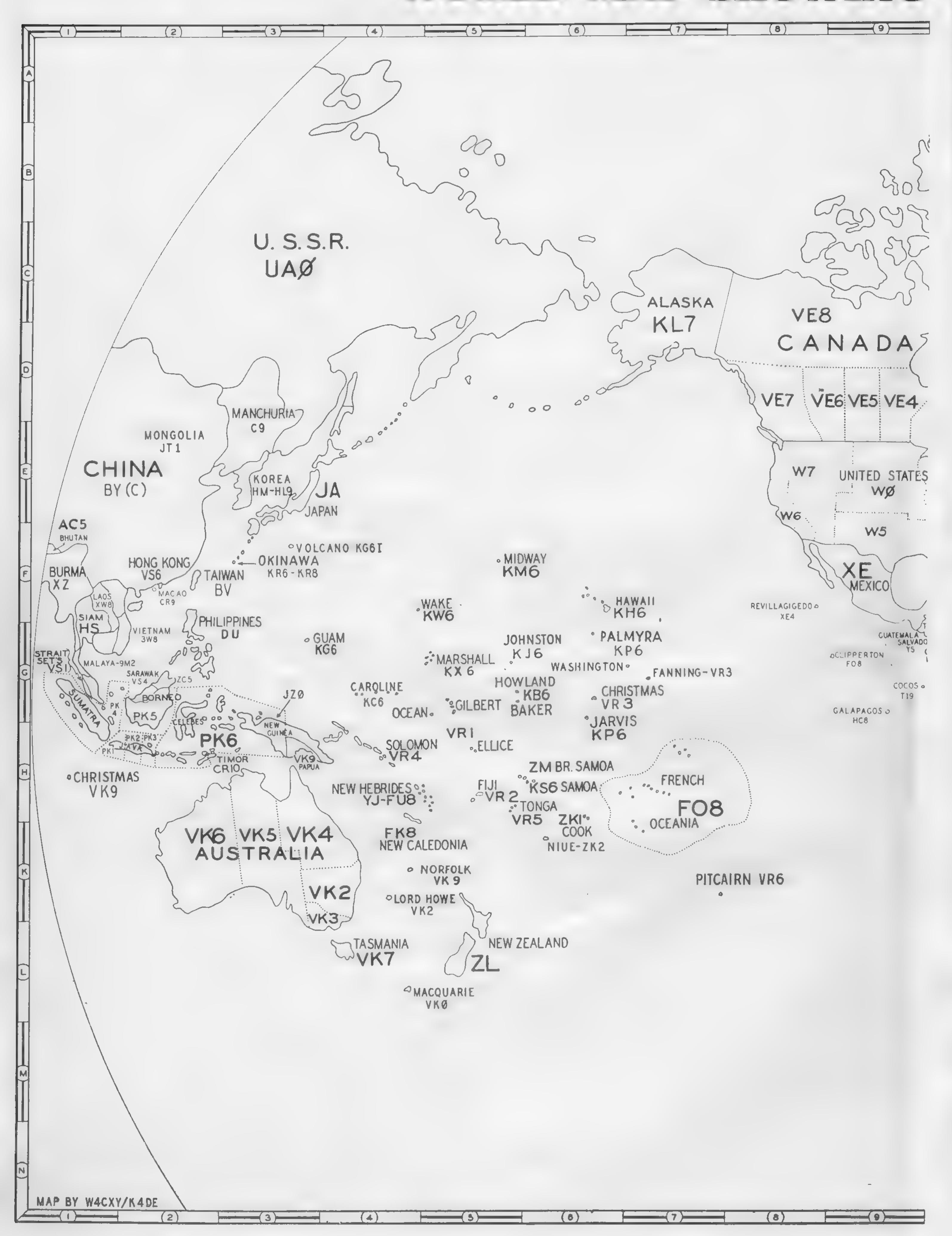
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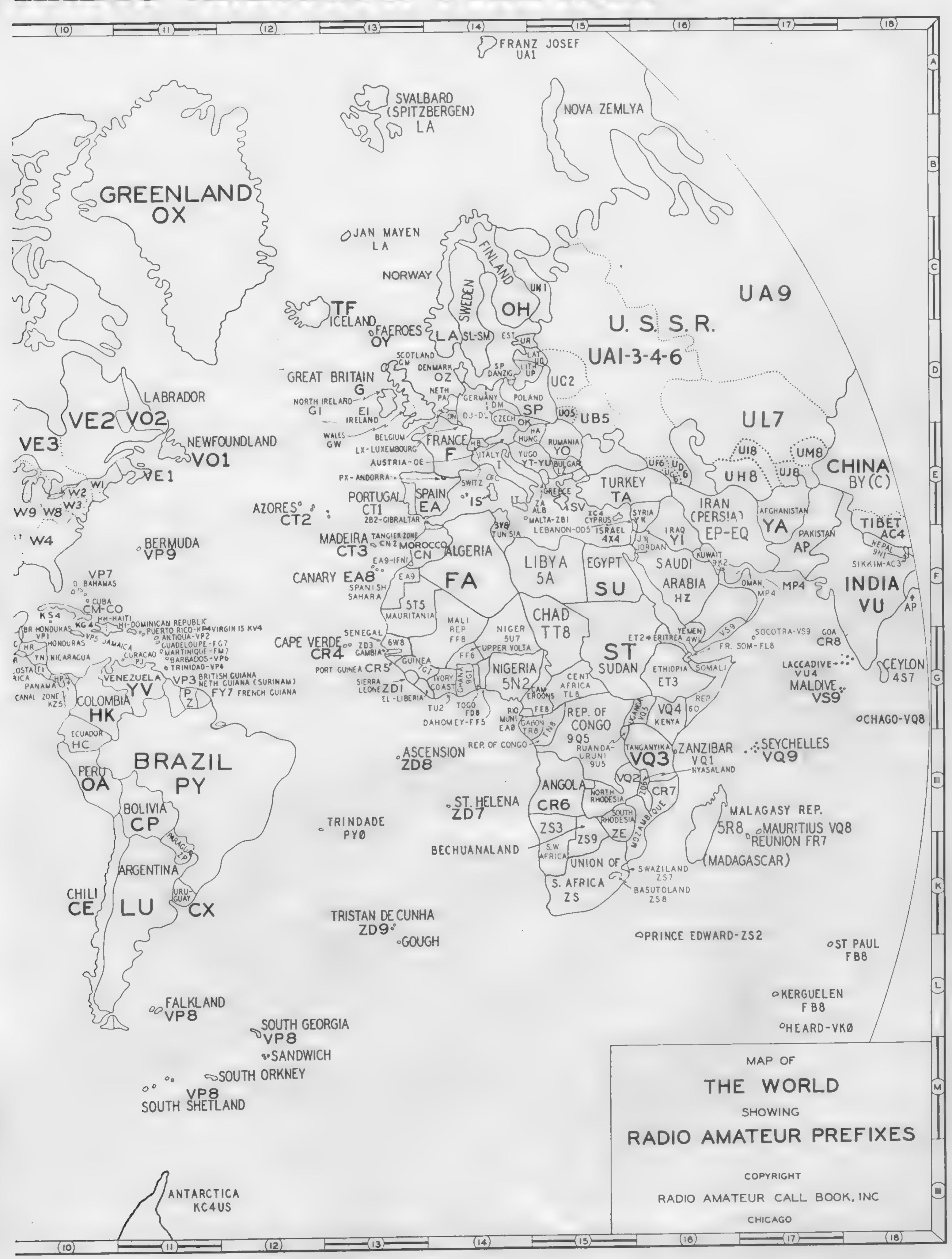
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INTERNATIONAL "Q" SIGNALS

Abbre- viation	Question	Answer or Advice	Abbre- viation		Answer or Advice
QRA	What is the name of your station?	The name of my stations is	QSX	Will you listen to [call sign(s)] on kc/s (or Mc/s)	I am listening to [call sign(s)] or
QRB	How far approximately are you from my station?	The approximate distance between our stations is nautical miles (or kilometres)		Shall I change to transmission on another frequency?	frequency [or on kc/s (o.
QRD	Where are you bound and where are you from?	I am bound for from	QSZ	Shall I send each word or group	
IRG	Will you tell me my exact frequency or that of)?	Your exact frequency (or that of is kc/s (or Mc/s).	QTA	more than once? Shall I cancel telegram number	Cancel telegram number as if i
QRH QRI	Does my frequency vary?	Your frequency varies.	QTB	Do you agree with my counting of	
2114	How is the tone of my transmission?	The tone of your transmission is (1. Good; 2. Variable;		words?	words; I will repeat the first letter or digit of each word or group.
QRK.	What is the readability of my signals	3. Bad). The readability of your signals (or	QTC	How many telegrams have you to send?	for).
	(or those of)?	those of) is (1. Unreadable; 2. Readable now and then;	QTE	What is my TRUE bearing from you?	degrees (at hours)
		 Readable, but with difficulty; Readable; Perfectly readable). 		What is my TRUE bearing from (call sign)?	Your TRUE bearing from (cal. sign) was degrees (at hours)
QRL	Are you busy?	I am busy (or I am busy with). Please do not interfere.		What is the TRUE bearing of (call sign)?	from (call sign) was de-
QRM	Are you being interferred with?	I am being interferred with.	QTG	Will you send two dashes of ten	I am going to send two dashes of
QRN QRO	Are you troubled by static?	I am troubled by static.		seconds each followed by your call sign (repeated times) [on	ten seconds each followed by my call sign (repeated times) [on
QRP	Shall I increase power? Shall I decrease power?	Increase power. Decrease power.		kc/s (or Mc/s)]?	kc/s (or Mc/)] or
QRQ	Shall I send faster?	Send faster (words per minute).		Will you request to send two dashes of ten seconds followed by his call sign (repeated times)	I have requested to send two dashes of ten seconds followed by his call sign (repeated times)
QRR	Are you ready for automatic operation?	I am ready for automatic operation. Send at words per minute.	QTH	on kc/s (or Mc/s)? What is your position in latitude and	on kc/s (or Mc/s).
QRS	Shall I send more slowly?	Send more slowly (words per minute).		longitude (or according to any other indication)?	tude (or according to any other indication).
QRT	Shall I stop sending?	Stop sending.	QTI	What is your TRUE track?	My TRUE track is degrees.
QRU	Have you anything for me?	I have nothing for you.	QTJ	What is your speed?	My speed is knots (or kilometres per hour).
VRÇ	Are you ready?	I am ready.	QTL	What is your TRUE heading?	My TRUE heading is degrees.
QRW	Shall I inform that you are calling him on kc/s (or Mc/s).	Please inform that I am calling him on kc/s (or Mc/s).	QTN	At what time did you depart from (place)?	I departed from (place) at hours.
QRX	When will you call me again?	I will call you again at hours [on kc/s (or Mc/s)].	QTO	Have you left dock (or port)? Are you airborne?	I have left dock (or port)
QRY	What is my turn?	Your turn is Number (Relates to communication.)	QTP	Are you going to enter dock (or port)?	I am airborne. I am going to enter dock (or port)
QRZ	Who is calling me?	You are being called by [on kc/s or Mc/s)].		Are you going to alight (or land)?	I am going to alight (or land).
QSA	What is the strength of my signals (or those of)?	The strength of your signals (or those of) is	QTQ	Can you communicate with my station by means of the International Code of Signals?	I am going to communicate with your station by means of the International Code of Signals.
		(1. Scarcely perceptible; 2. Weak; 3. Fairly good;	QTR	What is the correct time?	The correct time is hours.
		4. Good; 5. Very good).	QTS	Will you send your call sign for minute(s) now (or at hours)	I will send my call sign for minute(s) now (or at hours)
QSB	Are my signals fading?	Your signals are fading.		[on kc/s (or Mc/s] so that your frequency may be measured?	[on kc/s (or Mc/s)] so that my frequency may be measured.
QSD	Is my keying defective?	Your keying is defective.	QTU	What are the hours during which	
QSG	Shall I send telegrams at a time?	Send telegrams at a time.	OTT	Shall I stand award for were an the	hours.
QS!	What is the charge to be collected per word to including your internal telegraph charge?	The charge to be collected per word to including my internal telegraph charge is francs.		Shall I stand guard for you on the frequency of kc/s (or Mc/s) (from to hours)?	
QSK	Can you hear me between your signals?		QTX	Will you keep your station open for further communication with me until further notice (or until	further communication with you until further notice (or until
QSL	Can you acknowledge receipt?	I am acknowledging receipt.	QUA	Have you news of (call sign)?	Horo is nown of
QEM	Shall I repeat the last telegram which I sent you, or some previous telegram?	Repeat the last telegram which you sent me [or telegram(s) number(s)].		Can you give me, in the following order, information concerning: visi-	
SN	Did you hear me [or (call sign)] on kc/s (or Mc/s)?	I did hear you [or (call sign) on kc/s (or Mc/s).		bility, height of clouds, direction and velocity of ground wind at (place of observation)?	
250	Can you communicate with direct or by relay?	I can communicate with direct (or by relay through).	QUC	What is the number (or other indication) of the last message you received from me [or from (call sign]?	The number (or other indication) of the last message I received from you [or from (call sign)] is
QSP	Will you relay to free of charge?	I will relay to free of charge.	QUD	Have you received the urgency sig-	
QSQ	Have you a doctor on board [or is (name of person) on board]?	I have a doctor on board [or name of person) is on board].	QUF	nal sent by (call sign of mobile station)? Have you received the distress signal	station) at hours).
QSU	Shall I send or reply on this frequency [or on kc/s (or Mc/s)] (with emissions of class)?	Send or reply on this frequency (or on kc/s (or Mc/s] (with emissions of closs).		Have you received the distress signal sent by (call sign of mobile station)?	sent by (call sign of mobile station) at hours.
vac		Send a series of V's on this frequency	QUG	Will you be forced to alight (or land)?	diately.
sw	Will you send on this frequency [or	I am going to send on this frequency		TYT-71	I shall be forced to alight (or land) at (position or place).
	on kc/s (or Mc/s)] (with emissions of class)?	[or on kc/s (or Mc/s)] (with emissions of class).	DON	Will you give me the present ba- rometric pressure at sea level?	The present barometric pressure at sea level is (units).

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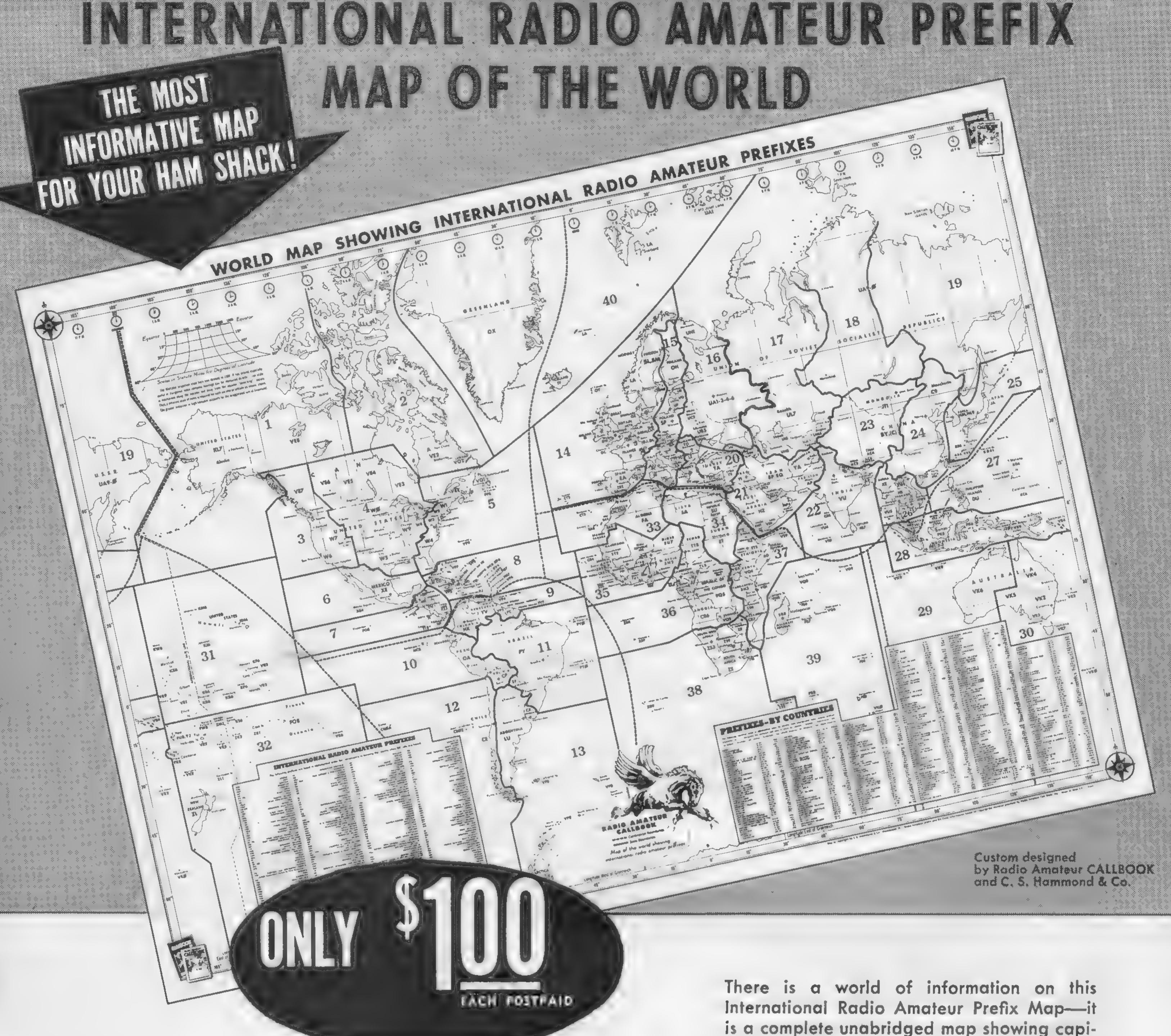
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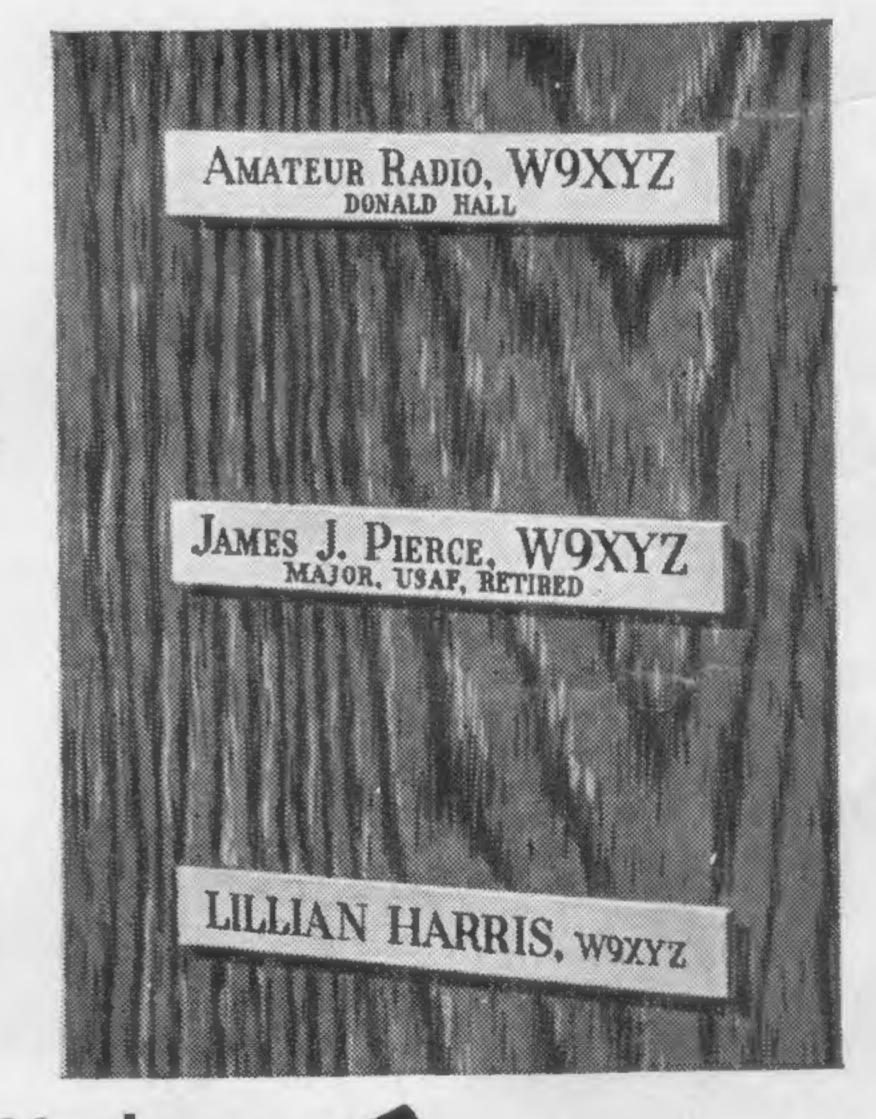
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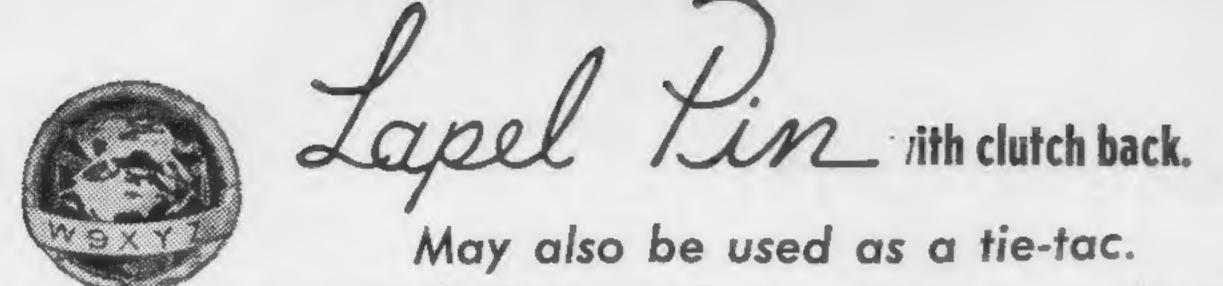
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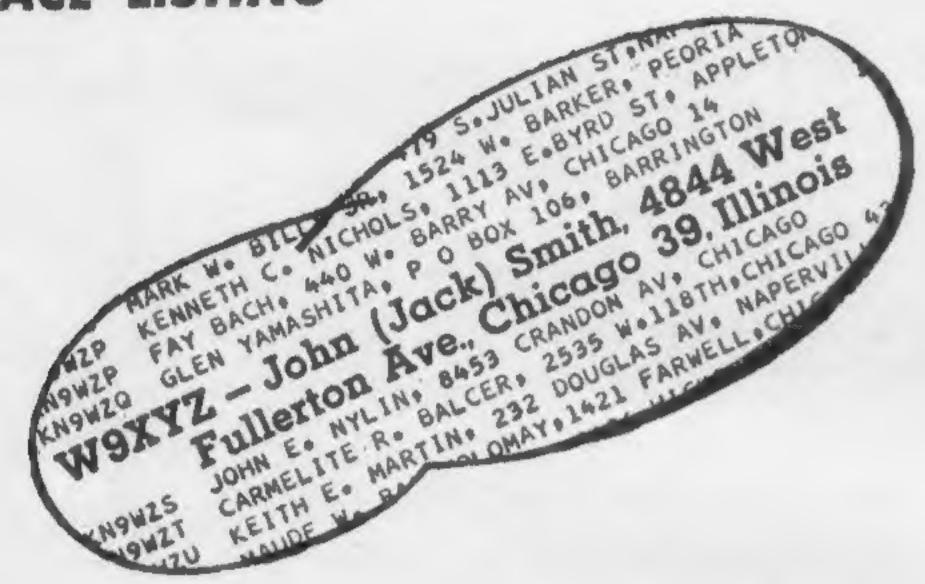
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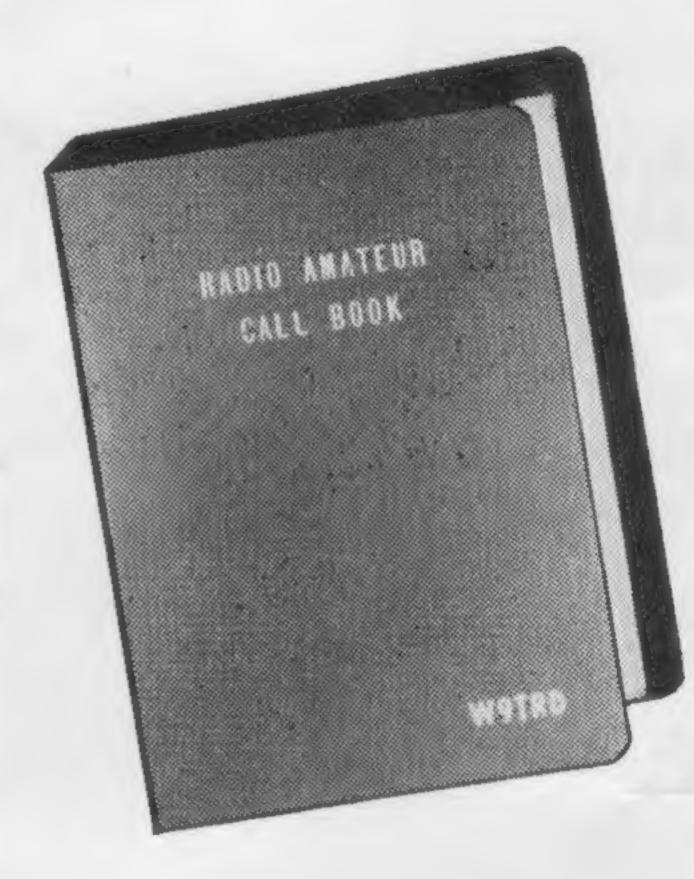
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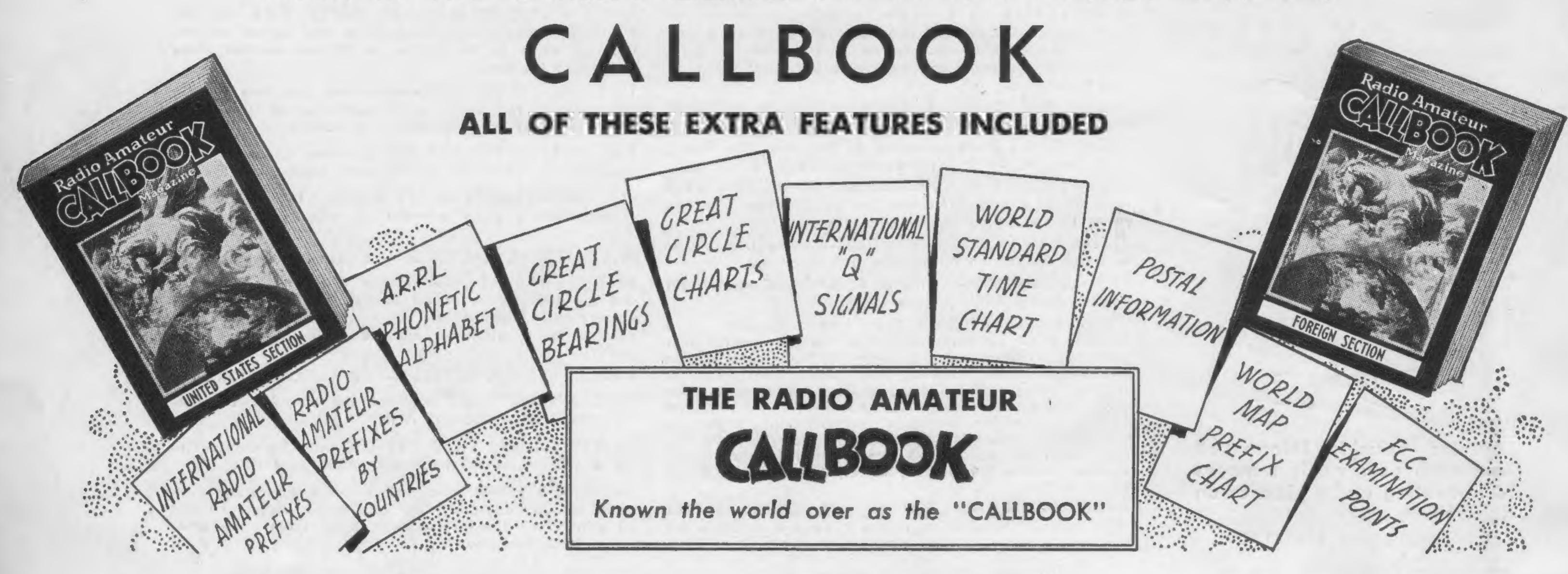
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